=> d his

(FILE 'HOME' ENTERED AT 12:32:05 ON 04 NOV 2003)

FILE 'REGISTRY' ENTERED AT 12:32:15 ON 04 NOV 2003

L1 STRUCTURE UPLOADED .

L2 QUE L1

L3 7 S L2

L4 1344 S L2 SSS FUL

FILE 'CAPLUS' ENTERED AT 12:34:24 ON 04 NOV 2003

L5 133 S L4

FILE 'REGISTRY' ENTERED AT 12:36:05 ON 04 NOV 2003

L6 STRUCTURE UPLOADED

L7 QUE L6

L8 STRUCTURE UPLOADED

L9 QUE L8

L10 254 S L7 SUB=L4 FUL

L11 113 S L9 SUB=L4 FUL

L12 347 S L10 OR L11

FILE 'CAPLUS' ENTERED AT 12:37:25 ON 04 NOV 2003

L13 64 S L12

FILE 'REGISTRY' ENTERED AT 12:37:41 ON 04 NOV 2003

L14 692 S L4 AND NRS>2

L15 200 S L12 AND NRS>2

L16 147 S L12 NOT L15

FILE 'CAPLUS' ENTERED AT 12:42:43 ON 04 NOV 2003

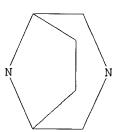
L17 39 S L15

=> d 12

L2 HAS NO ANSWERS

L1 STR



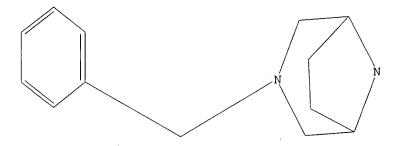


Structure attributes must be viewed using STN Express query preparation. L2 QUE ABB=ON PLU=ON L1

=> d 17

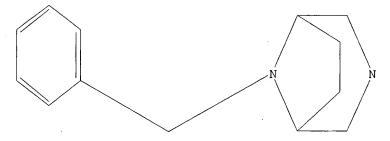
L7 HAS NO ANSWERS

L6 STF



Structure attributes must be viewed using STN Express query preparation. L7 QUE ABB=ON PLU=ON L6

=> d 19 L9 HAS NO ANSWERS L8 STR



Structure attributes must be viewed using STN Express query preparation. L9 QUE ABB=ON PLU=ON L8

=> d ibib abs hitstr 1-39 117

09//972,177 ANSWER 1 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN SION NUMBER: 2002:594840 CAPLUS 137:154858 137:154858
Preparation of saryisulfonamidopiperidones as inhibitors of Factor Xa.
Stein, Philip P., O'Connor, Stephen P., Lawrence, R. Michael, Shi, Yan
Bristol-Hyers Squibb Company, USA
PCT Int. Appl., 246 pp.
CODEN: PIXXD2
Patent CURENT NUMBER: INVENTOR(S): PATENT ASSIGNEE(S): DOCUMENT TYPE: English FAMILY ACC. NUM. COUNT: PATENT INFORMATION: PATENT NO. KIND DATE APPLICATION NO. DATE

WO 2002060894 A2 20020808 WO 2002-US2542 20020128

WO 2002060894 A3 20021219

W: AE, AG, AL, AH, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, DP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MM, MW, MX, MZ, NO, NZ, OM, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, EY, KG, KZ, MD, RU, TJ, TM

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

US 6555542 B1 20030429 US 2002-59621 20020129

PRIORITY APPLIN. INFO.:

US 2001-264964P F 20010130

OTHER SOURCE(S): MARPAT 137:154858 APPLICATION NO. PATENT NO. KIND DATE

Title compds. [I, X = (substituted) (CH2)m; m = 1-3; R1 = (substituted) alkyl, alkenyl, alkynyl, aryl, heteroaryl, etc.; R2, R3 = H, (substituted) alkyl, alkenyl, alkynyl, cycloalkyl, aryl, heteroaryl, etc.; R4, R41, R5, R51 = H, OH, (substituted) alkyl, alkynyl, cycloalkyl, aryl, heteroaryl, alkowy, etc.; R6, R61 = H, (substituted) alkyl, alkenyl, alkynyl, cycloalkyl, aryl, heteroaryl, etc.; R7, R8 = (substituted) (CH2)nH; n = 1-4; R7R8N = (substituted) (sycloheteroalkyl), were prepd. as cardiovascular agents (no data). 974 I, including (II), were prepd.

L17 ANSWER 2 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN ACCESSION NUMBER: 2002:314941 CAPLUS DOCUMENT NUMBER: 136:340701 DOCUMENT NUMBER: TITLE: 136:340701
Preparation of 3,8-diazabicyclo[3.2.1]octanes for treating cardiac arrhythmias
Bjoersne, Magnus; Hoffmann, Kurt-Juergen; Ponten, Fritiof; Strandlund, Gert; Svensson, Peder; Wilsternann, Michael Astrazeneca AB, Swed.
PCT Int. Appl., 135 pp.
CODEN: PIXXD2 INVENTOR (S): PATENT ASSIGNEE(S): SOURCE: FAMILY ACC. NUM. COUNT:

PATENT NO. KIND DATE APPLICATION NO. DATE Al WO 2001-SE2294 WO 2002032902 A1 20020425 WO 2001-SE2294 20011018

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CC, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, LP, ET, RO, RU, SD, SE, SG, SI, SK, SI, SI, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

RW: SWF GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, LE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

AU 2001096173 A5 20206429 AL 2001-96173 20011018

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, PRIORITY APPLN. INFO.: SE 2001-3795 A 20001020

OTHER SOURCE (S): MARPAT 136:340701 WO 2002032902 20020425 20011018 OTHER SOURCE(S):

The title compds. [I, one of Rl and R2 = Rla and the other = ACR13R14BR15 (wherein Rla = alkyl optionally substituted and/or terminated by one or more groups selected from halo, CN, NO2, etc., Rl3 = H, halo, alkyl, etc., Rl3R14 = O; or Rl4 = H, alkyl, Rl5 = (un)substituted aryl, heteroaryl, A = alkylene, etc., B = a bond, alkylene, etc., R3-R10 = H, alkyll, useful in the prophylaxis and in the treatment of arrhythmias, in particular atrial and ventricular arrhythmias, were prepd. Thus, reacting tert-Bu

Page 3

ANSWER 1 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN (Continued) RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(Uses)
(prepn. of arylsulfonamidopiperidones as inhibitors of Factor Xa)
445273-60-9 CAPLUS
3,8-Diazabicyclo[3.2.1]octane, 3-[{(3S)-3-[{(6-bromo-2-naphthalenyl)sulfonyl]amino]-2-oxo-1-piperidinyl]acetyl]-8-(phenylmethyl)-(9CI) (CA INDEX NAME)

Absolute stereochemistry.

L17 ANSWER 2 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)

3-(4-cyanophenoxy)-1-(3,8-diazabicyclo[3,2,1]oct-8ylmethyl)propylcarbanate (prepn. given) with Bu isocyanate in the presence
of Bt3N in MetN followed by treatment with HCl/EtoAc afforded I [R] =
CONHBUR R2 = CHZCHNHZCHZCHZC-P-CEMKCN: R3-R10 = H] in quant. yield. The
exemplified compds. I showed plc50 values of at least 5.5 for K channel
blockade.

IT 415975-69-8P 415975-70-1P 415976-92-OP
415977-80-9P 415977-64-9P 415977-72-9P
415977-80-9P 415977-66-5P 415977-95-6P
415978-02-8P
R1: PAC (Pharmacological activity); SPN (Synthetic preparation); THU

RI: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of 3,8-diazabicyclo(3.2.1]octanes for treating cardiac arrhythmias) 415975-69-8 CAPLUS Benzonitrile, 4-[(2S)-2-amino-3-[3-{phenylmethyl}-3,8-diazabicyclo[3.2.1]oct-8-yl]propoxy]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

415975-70-1 CAPLUS
Carbamic acid, [(1S)-1-[(4-cyanophenoxy)methyl]-2-[3-(phenylmethyl)-3,8-diazabicyclo[3.2.1]oct-8-yl]ethyl]-, methyl ester (SCI) (CA INDEX NAME)

Absolute stereochemistry.

415976-92-0 CAPLUS
Benzonitrile, 4-[1-(3,4-dimethoxyphenoxy)-4-[3-[(4-fluorophenyl)methyl]-3,8-diazabicyclo[3.2.1]oct-8-yl]butyl]- (9CI) (CA INDEX NAME)

L17 ANSWER 2 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)

415977-56-9 CAPLUS
Benzonitrile, 4-4-7-{3-(4-fluorophenyl)methyl)-3,8-diazabicyclo[3.2.1]oct-8-yl-2-hydroxypropoxyl- (SCI) (CA INDEX NAME)

415977-64-9 CAPLUS
Benzonitrile, 4-[[3-[3-[(4-fluorophenyl)methyl]-3,8-diazabicyclo[3,2.1]oct-8-yl]propyl]mmino]- (SCI) (CA INDEX NAME)

nн- (сн₂) з

415977-72-9 CAPLUS (Benzonitrile, 4-[2-[3-[(4-fluorophenyl]methyl]-3,8-diazabicyclo[3,2.1]oct-8-yl]ethoyl- (9C1) (CA INDEX NAME)

NC O-CH₂-CH₂-
$$N$$
 N-CH₂ F

415977-80-9 CAPLUS Benzonitrile, 4-[3-[4-fluoropheny1] methyl]-3, 8-diazabicyclo[3.2.1]oct-8-yl]propyl]sulfonyl]- (9CI) (CA INDEX NAME)

ANSWER 2 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)
17740-41-9P 415979-11-2P 415979-13-4P
415979-15-6P 415979-34-9P
RL: RCT (Reactant): SFN (Synthetic preparation); FREP (Preparation); RACT (Reactant or reagent)
(prepn. of 3,8-diazabicyclo[3.2.1]octanes for treating cardiac arrhythmias)
17740-41-9 CAPLUS
3,8-Diazabicyclo[3.2.1]octane-2,4-dione, 3,8-bis(phenylmethyl)-,
monohydrochloride (9CI) (CA INDEX NAME)

415979-11-2 CAPLUS
Benzonitrile, 4-[2-hydroxy-3-[3-(phenylmethy1)-3,8-diazabicyclo[3.2.1]oct-8-yl]propoxy]- (9CI) (CA INDEX NAME)

415979-13-4 CAPLUS Benzonitrile, 4-[[3-[3-(phenylmethyl)-3,8-diazabicyclo[3.2.1]oct-8-yllpropyl]amino]- (9CI) (CA INDEX NAME)

415979-15-6 CAPLUS Benzonitrile, 4-(1-(3,4-dimethoxyphenoxy)-4-[3-(phenylmethy1)-3,8-diazabicyclo[3.2.1]oct-8-yl]butyl]- (9CI) (CA INDEX NAME)

L17 ANSWER 2 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN

415977-86-5 CAPLUS
1,3-Benzenedicarbonitrile, 4-[2-[3-[(4-fluorcphenyl)methyl]-3,8-diazabicyclo[3.2.1]oct-8-yl]ethoxy]- (9CI) (CA INDEX NAME)

415977-95-6 CAPLUS
Carbamic acid, [(15)-2-(4-cyanophenoxy)-1-[[3-[(4-fluorophenyl)methyl]-3,8-diazabicyclo(3.2.1]oct-8-yl]methyl]-, methyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

415978-02-8 CAPLUS
Benzonitrile, 4-[3-amino-4-[3-[(4-fluorophenyl)methyl]-3,8-diazabicyclo[3.2.1]oct-8-yl]butoxy]- (9CI) (CA INDEX NAME)

L17 ANSWER 2 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)

415979-34-9 CAPLUS Carbamic acid, [(1S)-1-[(4-cyanophenoxy)methyl]-2-[3-(phenylmethyl)-3,8-diazabicyclo[3.2.1]oct-8-yl]ethyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

REFERENCE COUNT:

THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L17 ANSWER 3 OF 39
ACCESSION NUMBER:
DOCUMENT NUMBER:
117 ANSWER 3 OF 39
ACCESSION NUMBER:
2002:314940 CAPLUS
136:340711
Bridged piperazine derivatives, specifically
3,8-diazabicyclo[3,2.1]octane, 2,5diazabicyclo[3,2.1]octane, 2,5diazabicyclo[3,2.1]octane, 2,5diazabicyclo[3,2.1]octane, 2,5diazabicyclo[3,2.1]octane, 2,5diazabicyclo[3,2.1]octane, 2,5diazabicyclo[3,2.1]octane, 2,5diazabicyclo[3,2.1]onane derivatives, useful as inhibitors of chenokines binding to CCRI receptors, for treating inflammation and other immune disorders.
Blumberg, Laura Cook: Brown, Matthew Frank: Glaude, Ronald Paul; Poss, Christopher Stanley
Pfizer Products Inc., USA
PCT Int. Appl., 89 pp.
CODEN: TYPE:
DOCUMENT TYPE:
English

DOCUMENT TYPE: LANGUAGE: English

FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

L17 ANSWER 3 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)

$$\begin{array}{c} \text{H}_2\text{N-CH}_2-\text{CH}_2-\text{NH-C} \\ \\ \text{C} \\ \\ \text{C} \\ \end{array}$$

417726-79-5 CAPLUS 3.8-Diazabicyclo[3.2.1]octane, 8-[(2-amino-5-chlorophenoxy)acetyl]-3-[(4-fluorophenyl)methyl]- (9CI) (CA INDEX NAME)

417726-83-1 CAPLUS 3,8-Diazabicyclo[3.2.1]octane, 8-{[(3-amino-5-chloro-2-pyridinyl)oxy]acetyl]-3-[(4-fluorophenyl)methyl]- (9CI) (CA INDEX NAME)

417726-39-7P, 1-[3-(4-Fluorobenzyl)-3,8-diazabicyclo[3.2.1]cct-8-yl]-2-(2-nitro-4-trifluoromethylphenoxy)ethanone 417726-40-0P, 4-Chloro-2-[2-[3-(4-fluorobenzyl)-3,8-diazabicyclo[3.2.1]cct-8-yl]-2-cxoethoxy)benzanide 417726-41-P, 1-[3-(4-Fluorobenzyl)-3,8-diazabicyclo[3.2.1]cct-8-yl]-2-(2-ethoxycarboxyl-4-chlorophenoxy)ethanone 417726-42-2P, 1-[3-(4-Fluorobenzyl)-3,8-diazabicyclo[3.2.1]cct-8-yl]-2-(2-actyl-5-chlorophenoxy)ethanone 417726-43-3P, 1-[3-(4-Fluorobenzyl)-3,8-diazabicyclo[3.2.1]cct-8-yl]-2-(2-autyl-3-2-2-2-blorophenoxy)ethanone 417726-44-4P, 1-[3-(4-Fluorobenzyl)-3,8-diazabicyclo[3.2.1]cct-8-yl]-2-(2-anitro-5-trifluoromethylphenoxy)ethanone 417726-45-5P, 1-[3-(4-Fluorobenzyl)-3,8-diazabicyclo[3.2.1]cct-8-yl]-2-(2-cxoethoxy)ethanone 417726-46-6P, 5-Chloro-2-(2-[8-(4-fluorobenzyl)-3,8-diazabicyclo[3.2.1]cct-3-yl]-2-cxoethoxy)benzenesulfonamide 41726-47-7P, 4-Chloro-2-(2-[8-(4-fluorobenzyl)-3,8-diazabicyclo[3.2.1]cct-3-yl]-2-cxoethoxy)benzenesulfonamide 41726-48-8P, 4-Chloro-2-(2-[8-(4-fluorobenzyl)-3,8-diazabicyclo[3.2.1]cct-3-yl]-2-cxoethoxy)benzenesulfonamide 41726-48-8P, 4-Chloro-2-(2-[8-(4-fluorobenzyl)-3,8-diazabicyclo[3.2.1]cct-3-yl]-2-cxoethoxy)benzenesulfonamide 41726-48-8P, 4-Chloro-2-(2-[8-(4-fluorobenzyl)-3,8-diazabicyclo[3.2.1]cct-3-yl]-2-cxoethoxy)benzenesulfonamide 41726-48-8P, 4-Chloro-2-(2-[8-(4-fluorobenzyl)-3,8-diazabicyclo[3.2.1]cct-3-yl]-2-cxoethoxy)benzenesulfonamide 41726-49-3PP,

L17 ANSWER 3 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)

$$R-(z)-(Y)_{m}-(X)_{q}$$

$$N_{a}$$

$$b_{c}$$

$$V$$

$$I$$

Compds. I and their pharmaceutically acceptable salts, useful for treatment of inflammation and other immune disorders, are disclosed [wherein: n = 1-5; n = 1-5; q = 0-1; a, b, c = (CH2)0-4 (independently); a, b, and c cannot all be null; if a and/or c is not null, then b must be null; v = CH0 rN, X = CO, C(5), or CH2; Y = CH2; Z = 0, (un)substituted. NH or (un)substituted CH2; R = certain (un)substituted (hetero)aryl or (hetero)cycloalkyl; R = (independently) H, OH, SO3H, halo, alkyl, SH, CF3, wide variety of other substitutents]. The compds. are useful for treatment of a wide variety of diseases and disorders, which are cited specifically in claims. Approx. 100 specific examples of I are given, many with synthetic details. For example, 3-(4-fluorobenzyl)-3,8-diazabicyclo(3.2.1)cctan-2-one (prepn. given) underwent a sequence of: (1) redn. of the amide carbonyl using LiAlH4 (94%); (2) 8-M-acylation with chloroacetyl chloride (69%); and (3) etherification with chloroacetyl chloride (69%); and (40%); a

ANSWER 3 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)
5-Methoxy-2-[2-[8-(4-fluorobenzyl)-3,8-diazabicyclo[3.2.1]oct-3-yl]-2oxoethoxy]benzamide 417726-50-2P, 4-chloro-2-[2-[8-(4-fluorobenzyl)-3,8-diazabicyclo[3.2.1]oct-3-yl]-2-oxoethoxy]-1-nitrobenzene
417726-51-3P, 2-(5-Chloroquinolin-8-yloxy)-1-[3-(4-fluorobenzyl)-3,8-diazabicyclo[3.2.1]oct-8-yl]-1-[4-fluorobenzyl)-3,8-diazabicyclo[3.2.1]oct-8-yl]-2-nitropyridin-3-yloxy]-bthanone 417726-55-P2, 2-(5-Chloro-3-anitropyridin-3-yloxy)-1-[3-(4-fluorobenzyl)-3,8-diazabicyclo[3.2.1]oct-8-yl]ethanone 417726-55-P3-P2, 2-(5-Chloro-3-anitropyridin-2-yloxy)-1-[3-(4-fluorobenzyl)-3,8-diazabicyclo[3.2.1]oct-8-yl]ethanone 417726-57-P2, 2-(5-Chloro-3-anitropyridin-2-yloxy)-1-[3-(4-fluorobenzyl)-3,8-diazabicyclo[3.2.1]oct-8-yl]ethanone
417726-57-P2, 2-(5-Chloro-3-methoxycarbonylpyridin-2-yloxy)-1-[3(4-fluorobenzyl)-3,8-diazabicyclo[3.2.1]oct-8-yl]ethanone
417726-57-P2, 4-Chloro-2-[2-[3-(4-fluorobenzyl)-3,8-diazabicyclo[3.2.1]oct-8-yl]-2-oxoethoxylbenzoic acid 417726-58-OP
, 4-Methyl-2-[2-[3-(4-fluorobenzyl)-3,8-diazabicyclo[3.2.1]oct-8-yl]-2-oxoethoxylbenzoic acid 417726-61-5P
, 4-Methyl-2-[2-[3-(4-fluorobenzyl)-3,8-diazabicyclo[3.2.1]oct-8-yl]-2-oxoethoxylbenzoic acid 417726-61-5P
, 4-Methyl-2-[3-(4-fluorobenzyl)-3,8-diazabicyclo[3.2.1]oct-8-yl]-2-oxoethoxylbenzoic acid 417726-62-P2, 8-diazabicyclo[3.2.1]oct-8-yl]-2-oxoethoxylbenzoic acid 417726-63-P3, 5-Chloro-2-[2-[3-(4-fluorobenzyl)-3,8-diazabicyclo[3.2.1]oct-8-yl]-2-oxoethoxylbenzoic acid 417726-63-P3, 8-diazabicyclo[3.2.1]oct-8-yl]-2-oxoethoxylbenzoic acid 41726-63-P3, 8-diazabicyclo[3.2.1]oct-8-yl]-2-oxoethoxylbenzoic acid 41726-63-P3, 8-diazabicyclo[3.2.1]oct-8-yl]-2-oxoethoxylbenzoic acid 41726-63-P3, 4-diazabicyclo[3.2.1]oct-8-yl]-2-

L17 ANSWER 3 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN (Continued) diazabicyclo[3.2.1]oct-8-yl]ethanone 417726-85-3P, 2-Amino-N-[5-chloro-2-[2-3-(4-fluorobenzyl)-3.8-diazabicyclo[3.2.1]oct-8-yl]-2-oxoethoxy]pyridin-3-yl]acetamide 417726-86-4P, N-[5-chloro-2-[2-18-(4-fluorobenzyl)-3.8-diazabicyclo[3.2.1]oct-3-yl]-2-oxoethoxy]phenyl]-3-hydroxy-3-methylbutyramide 417726-86-4P, N-[4-chloro-2-[2-13-(4-fluorobenzyl)-3.8-diazabicyclo[3.2.1]oct-8-yl]-2-oxoethoxy]phenyl]methanesulfonamide 417726-88-6P, N-[5-(Trifluoromethyl)-2-[2-3-(4-fluorobenzyl)-3.8-diazabicyclo[3.2.1]oct-8-yl]-2-oxoethoxy]phenyl]methanesulfonamide 417726-89-7P, N-[5-chloro-2-[2-13-(4-fluorobenzyl)-3.8-diazabicyclo[3.2.1]oct-8-yl]-2-oxoethoxy]phenyl]methanesulfonamide 417726-90-0P, N-[2-[[4-chloro-2-[2-13-(4-fluorobenzyl)-3.8-diazabicyclo[3.2.1]oct-8-yl]-2-oxoethoxy]phenyl]carbonyl]amino|ethyl]methanesulfonamide 417726-91-1P, N-[5-chloro-2-[2-18-(4-fluorobenzyl)-3.8-diazabicyclo[3.2.1]oct-8-yl]-2-oxoethoxy]phenyl]carbonyl]amino|ethyl]methanesulfonamide 417726-91-1P, N-[5-chloro-2-[2-18-(4-fluorobenzyl)-3.8-diazabicyclo[3.2.1]oct-8-yl]-2-oxoethoxy]phenyl]methanesulfonamide 417726-93-3P, N-[5-chloro-2-[2-13-(4-fluorobenzyl)-3.8-diazabicyclo[3.2.1]oct-8-yl]-2-oxoethoxy]pyridin-3-yl]ethanesulfonamide 417726-93-3P, N-[6-Methyl-3-[2-3-4-fluorobenzyl)-3.8-diazabicyclo[3.2.1]oct-8-yl]-2-oxoethoxy]pyridin-2-yl]methanesulfonamide 417726-93-3P, N-[6-Methyl-3-[2-3-4-fluorobenzyl)-3.8-diazabicyclo[3.2.1]oct-8-yl]-2-oxoethoxy]pyridin-2-yl]methanesulfonamide 417726-93-3P, N-[6-Methyl-3-[2-3-4-fluorobenzyl)-3.8-diazabicyclo[3.2.1]oct-8-yl]-2-oxoethoxy]pyridin-2-yl]methanesulfonamide 417726-93-3P, N-[6-Methyl-3-[2-3-4-fluorobenzyl)-3.8-diazabicyclo[3.2.1]oct-8-yl]-2-oxoethoxy]pyridin-2-yl]methanesulfonamide 417726-93-3P, N-[6-Methyl-3-2-2-3-4-fluorobenzyl)-3.8-diazabicyclo[3.2.1]oct-8-yl]-2-oxoethoxy]pyridin-2-yl]methanesulfonamide 417726-93-3P, N-[6-Methyl-3-2-2-3-4-fluorobenzyl)-3.8-diazabicyclo[3.2.1]oct-8-yl]-2-oxoethoxy]pyridin-2-yl]methanesulfonamide 41726-99-7P,

(drug candidate; prepn. of bridged piperazine derivs. as inhibitors of chemokines binding to CCR1 receptors)
417726-39-7 CAPLUS

3,8-Diazabicyclo[3,2,1]octane, 3-[(4-fluorophenyl)methyl]-8-[[2-nitro-4-(trifluoromethyl)phenoxy]acetyl]- (9Cl) (CA INDEX NAME)

417726-40-0 CAPLUS
Benzamide, 4-chloro-2-[2-[3-[(4-fluorophenyl)methyl]-3,8diazabicyclo[3,2.1]oct-8-yl]-2-oxoethoxy]- (SCI) (CA INDEX NAME)

L17 ANSWER 3 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)

417726-45-5 CAPLUS
Benzeneacetic acid, 4-chloro-2-[2-[3-[(4-fluorophenyl)methyl]-3,8-diazabicyclo[3.2.1]oct-8-yl]-2-oxoethoxy]-, ethyl ester (9CI) (CA INDEX NAME)

417726-46-6 CAPLUS
3,8-Diazabicyclo[3,2,1]octane, 3-{[2-(aminosulfonyl)-4-chlorophenoxy]acetyl]-8-[(4-fluorophenyl)methyl]- (9CI) (CA INDEX NAME)

417726-47-7 CAPLUS
3.8-Diazabicyclo(3.2.1)octans, 3-[[2-(aminosulfonyl)-5-chlorophenoxy]acetyl]-8-[(4-fluorophenyl)methyl]- (9CI) (CA INDEX NAME)

ANSWER 3 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN (Continued) 417726-41-1 CAPLUS
Benzoic acid, 5-chloro-2-[2-(3-{(4-fluorophenyl)methyl]-3,8-diazabicyclo[3.2.1]oct-8-yl]-2-oxoethoxy}-, ethyl ester (9CI) (CA INDEX

417726-42-2 CAPLUS
3,8-Diazabicyclo[3,2.1]octane, 8-[(2-acety1-5-chlorophenoxy)acety1]-3-[(4-fluoropheny]]methyl]- (9CI) (CA INDEX NAME)

417726-43-3 CAPLUS
3,8-Diazabicyclo[3.2.1]octane, 8-[[2-(aminosulfony1)-5-chlorophenoxy]acetyl]-3-[(4-fluoropheny1)methyl]- (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} & & & \\ & & & \\ H_2N-S=0 & \\ & & & \\$$

417726-44-4 CAPLUS 3,8-01azabicyclo[3.2.1]octane, 3-[(4-fluorophenyl)methyl]-8-[[2-nitro-5-(trifluoromethyl)phenoxylacetyl]- (9CI) (CA INDEX NAME)

L17 ANSWER 3 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)

$$\begin{array}{c} \text{CH}_2 \\ \text{CH}_2 \\ \text{N} \\ \text{C} \\ \text{C} \\ \text{CH}_2 \\ \text{O} \\ \text{C} \\ \text{S} \\ \text{NH}_2 \\ \text{O} \\ \text{N} \\ \text{O} \\ \text{C} \\ \text{C}$$

417726-48-8 CAPLUS
Benzamide, 4-chloro-2-[2-[8-[(4-fluorophenyl)methyl]-3,8-diazabicyclo[3.2.1]oct-3-yl]-2-cxoethoxy]- (9CI) (CA INDEX NAME)

417726-49-9 CAPLUS
Benzamide, 2-{2-[8-[(4-fluorophenyl)methyl]-3,8-diazabicyclo[3.2.1]oct-3-yl]-2-oxoethoxyj-5-methoxy- (9CI) (CA INDEX NAME)

417726-50-2 CAPLUS
3,8-Dlazabicyclo[3,2,1]octane, 3-[(5-chloro-2-nitrophenoxy)acety1]-8-[(4-fluoropheny1)nethy1]- (9C1) (CA INDEX NAME)

ANSWER 3 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN (Continued) 417726-51-3 CAPLUS 3,8-Diazabicyclo[3,2.1]octane, 8-[{(5-chloro-8-quinolinyl)cxy}acetyl]-3-[(4-fluorophenyl)methyl]- (9CI) (CA INDEX NAME)

417726-52-4 CAPLUS
3,8-Diazabicyclo[3.2.1]octane, 3-{(4-fluorophenyl)methyl]-8-{(6-methyl-2-nitro-3-pyridinyl)oxylacetyl}- (9CI) (CA INDEX NAME)

417726-53-5 CAPLUS
3, 0-Diazabicyclo{3.2.1}octane, 0-{{(5-chloro-3-nitro-2-pyridinyl)oxy|acetyl}-3-{(4-fluorophenyl)methyl}- (9CI) (CA INDEX NAME)

417726-54-6 CAPLUS
3-Pyridinecarboxamide, 5-chloro-2-[2-[3-[(4-fluorophenyl)methyl]-3,8-diazabicyclo[3.2.1]oct-8-yl]-2-oxoethoxy]- (9CI) (CA INDEX NAME)

L17 ANSWER 3 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)

417726-59-1 CAPLUS
Benzolc acid, 2-[2-[3-[(4-fluorophenyl)methyl]-3,8-diazabicyclo[3.2.1]oct-8-yl]-2-ocethowy]-4-methoxy- (9CI) (CA INDEX NAME)

$$\bigcap_{CO_2H} O-CH_2 - \bigcap_{CN} \bigcap_{N-CH_2-CN} F$$

417726-60-4 CAPLUS
Benzolc acid, 2-{2-{3-{(4-fluorophenyl)methyl}-3,8-diazabicyclo[3.2.1]oct-8-yl]-2-ocethoxy)-4-iodo- (SCI) (CA INDEX NAME)

417726-61-5 CAPLUS Benzoic acid, 4-bromo-2-[2-[3-[(4-fluorophenyl)methyl]-3,8-diazabicyclo[3.2.1]oct-8-yl]-2-oxoethoxy]- (9CI) (CA INDEX NAME)

417726-62-6 CAPLUS
Benzeneacetic acid, 4-chloro-2-[2-[3-[(4-fluorophenyl)methyl]-3,8-diazabicyclo[3,2:]joct-8-yl]-2-oxoethoxy]- (9CI) (CA INDEX NAME) Page 7

L17 ANSWER 3 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN

$$\bigcap_{H_2N-C} \bigcap_{C1} \bigcap_{N-CH_2-C-N} \bigcap_{N-CH_2} \bigcap_{F} \bigcap_$$

417726-55-7 CAPLUS
3-Pyridinecarboxylic acid, 5-chloro-2-[2-(3-[(4-fluorophenyl)methyl]-3,8-diazabicyclo[3.2.1]oct-8-yl]-2-oxoethoxy]-, methyl ester (9CI) (CA INDEX NAME)

$$\begin{array}{c} 0 \\ \parallel \\ \text{MeO-C} \\ \hline \\ \text{C1} \\ \end{array} \\ \begin{array}{c} 0 \\ \parallel \\ \text{O-CH}_2 \\ \hline \\ \end{array} \\ \begin{array}{c} 0 \\ \parallel \\ \text{N} \\ \end{array} \\ \begin{array}{c} 0 \\ \parallel \\ \text{C1} \\ \end{array} \\ \begin{array}{c} 0 \\ \parallel \\ \text{N} \\ \end{array} \\ \begin{array}{c} 0 \\ \parallel \\ \text{C1} \\ \end{array} \\ \begin{array}{c} 0 \\ \parallel \\ \text{N} \\ \end{array} \\ \begin{array}{c} 0 \\ \parallel \\ \text{N} \\ \end{array} \\ \begin{array}{c} 0 \\ \parallel \\ \text{C1} \\ \end{array} \\ \begin{array}{c} 0 \\ \parallel \\ \text{N} \\ \end{array} \\ \begin{array}{c} 0 \\ \parallel \\ \end{array} \\ \\ \begin{array}{c} 0 \\ \parallel \\ \end{array} \\ \begin{array}{c} 0 \\ \parallel \\ \end{array} \\ \begin{array}{c} 0 \\ \parallel \\ \end{array} \\ \begin{array}{c} 0 \\ \parallel \\$$

417726-57-9 CAPLUS
Benzoic acid, 4-chloro-2-[2-[3-[(4-fluorophenyl)methyl]-3,8-diazabicyclo[3.2.1]oct-8-yl]-2-oxoethoxyl- (SCI) (CA INDEX NAME)

417726-58-0 CAPLUS
Benzoic acid, 2-[2-[3-[(4-fluorophenyl)methyl]-3,8-diazabicyclo[3.2.1]oct-8-yl]-2-ocethoxyl-4-methyl- (9CI) (CA INDEX NAME)

L17 ANSWER 3 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN

417726-63-7 CAPLUS
Benzoic acid, 5-chloro-2-{2-{8-{(4-fluorophenyl)methyl]-3,8-diazabicyclo{3,2,1}oct-3-yl]-2-oxoethoxy]- {9CI} (CA INDEX NAME)

417726-64-8 CAPLUS
3-Pyridinecarboxylic acid, 5-chloro-2-[2-[3-[(4-fluorophenyl)methyl]-3,8-diazabicyclo[3.2.1]oct-8-yl]-2-oxoethoxy]- (9CI) (CA INDEX NAME)

$$\begin{array}{c} \text{C1} \\ & \downarrow \text{N} \\ \text{O} \\ \text{CO}_2\text{H} \\ \end{array} \\ \begin{array}{c} \text{O} \\ \text{CH}_2 \\ \text{C} \\ \text{C} \\ \text{N} \\ \text{N} \\ \text{CH}_2 \\ \end{array} \\ \begin{array}{c} \text{CH}_2 \\ \text{C} \\ \text{C}$$

417726-65-9 CAPLUS
2-Naphthalenecarboxylic acid, 3-[2-[3-[(4-fluorophenyl)methyl]-3,8-diazabicyclo[3,2.1]oct-8-yl]-2-oxoethoxyl- (SCI) (CA INDEX NAME)

417726-66-0 CAPLUS
2-Naphthalenecarboxylic acid, 4-chloro-1-[2-[3-[(4-fluorophenyl)methyl]-3,8-diazabicyclo[3.2.1]oct-8-yl]-2-oxoethoxy]- (9CI) (CA INDEX NAME)

L17 ANSWER 3 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)

RN 417726-67-1 CAPLUS
CN Benzamide, 5-chloro-2-[2-[3-[(4-fluorophenyl)methyl]-3,8-diazabicyclo[3.2.1]oct-8-yl]-2-oxoethoxy]-N-1H-tetrazol-5-yl- (9CI) (CA NDEX NAME)

RN 417726-68-2 CAPLUS
CN Glycine, N-[4-chloro-2-[2-[3-[(4-fluorophenyl)methyl]-3,8-diazabicyclo[3.2.1]oct-8-yl]-2-oxoethoxy]benzoyl]- (9CI) (CA INDEX NAME)

RN 417726-69-3 CAPLUS

Senzamide, 4-chloro-2-[2-[3-[(4-fluorophenyl)methyl]-3,8diazabicyclo[3.2.1]oct-8-yl]-2-oxoethoxy}-N-(methylaulfonyl)- (9CI) (CA
INDEX NAME)

L17 ANSWER 3 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)

$$\begin{array}{c|c} & & & \\ & & & \\ H_2N-C-CH_2-NH-C \\ & & & \\ & & & \\ C1 \\ \end{array} \\ \begin{array}{c|c} & & \\ & & \\ & & \\ \end{array} \\ \begin{array}{c|c} & & \\ & & \\ & & \\ \end{array} \\ \begin{array}{c|c} & & \\ & & \\ \end{array} \\ \begin{array}{c|c} & & \\ & & \\ \end{array} \\ \begin{array}{c|c} & & \\ & & \\ \end{array} \\ \begin{array}{c|c} & & \\ & & \\ \end{array} \\ \begin{array}{c|c} & & \\ & & \\ \end{array} \\ \begin{array}{c|c} & & \\ & & \\ \end{array} \\ \begin{array}{c|c} & & \\ & & \\ \end{array} \\ \begin{array}{c|c} & & \\ & & \\ \end{array} \\ \begin{array}{c|c} & & \\ & & \\ \end{array} \\ \begin{array}{c|c} & & \\ & & \\ \end{array} \\ \begin{array}{c|c} & & \\ & & \\ \end{array} \\ \begin{array}{c|c} & & \\ & & \\ \end{array} \\ \begin{array}{c|c} & & \\ & & \\ \end{array} \\ \begin{array}{c|c} & & \\ & & \\ \end{array} \\ \begin{array}{c|c} & & \\ & & \\ \end{array} \\ \begin{array}{c|c} & & \\ & & \\ \end{array} \\ \begin{array}{c|c} & & \\ & & \\ \end{array} \\ \begin{array}{c|c} & & \\ & & \\ \end{array} \\ \begin{array}{c|c} & & \\ & & \\ \end{array} \\ \begin{array}{c|c} & & \\ & & \\ \end{array} \\ \begin{array}{c|c} & & \\ & & \\ \end{array} \\ \begin{array}{c|c} & & \\ & & \\ \end{array} \\ \begin{array}{c|c} & & \\ & & \\ \end{array} \\ \begin{array}{c|c} & & \\ & & \\ \end{array} \\ \begin{array}{c|c} & & \\ & & \\ \end{array} \\ \begin{array}{c|c} & & \\ & & \\ \end{array} \\ \begin{array}{c|c} & & \\ & & \\ \end{array} \\ \begin{array}{c|c} & & \\ & & \\ \end{array} \\ \begin{array}{c|c} & & \\ & & \\ \end{array} \\ \begin{array}{c|c} & & \\ & & \\ \end{array} \\ \begin{array}{c|c} & & \\ & & \\ \end{array} \\ \begin{array}{c|c} & & \\ & & \\ \end{array} \\ \begin{array}{c|c} & & \\ & & \\ \end{array} \\ \begin{array}{c|c} & & \\ & & \\ \end{array} \\ \begin{array}{c|c} & & \\ & & \\ \end{array} \\ \begin{array}{c|c} & & \\ & & \\ \end{array} \\ \begin{array}{c|c} & & \\ & & \\ \end{array} \\ \begin{array}{c|c} & & \\ & & \\ \end{array} \\ \begin{array}{c|c} & & \\ & & \\ \end{array} \\ \begin{array}{c|c} & & \\ & & \\ \end{array} \\ \begin{array}{c|c} & & \\ & & \\ \end{array} \\ \begin{array}{c|c} & & \\ & & \\ \end{array} \\ \begin{array}{c|c} & & \\ & & \\ \end{array} \\ \begin{array}{c|c} & & \\ & & \\ \end{array} \\ \begin{array}{c|c} & & \\ \end{array} \\ \begin{array}{c|c} & & \\ \end{array} \\ \begin{array}{c|c} & & \\ & & \\ \end{array} \\ \begin{array}{c|c} & & \\ \end{array} \\ \begin{array}{c|c} & & \\ & & \\ \end{array} \\ \begin{array}{c|c} & & \\ \end{array} \\ \begin{array}{c|c} & & \\ & & \\ \end{array} \\ \begin{array}{c|c} & & \\ & & \\ \end{array} \\ \begin{array}{c|c} & & \\ \end{array} \\$$

RN 417726-73-9 CAPLUS
CN Benzamide, N-{2-{(aminocarbonyl)amino]ethyl}-4-chloro-2-{2-{3-{(4-fluorophenyl)methyl}-3,8-diazabicyclo{3.2.1}oct-8-yl}-2-oxoethoxy}- (9CI)
(CA INDEX NAME)

RN 417726-74-0 CAPLUS
CN Acetamide, 2-[[[5-chloro-2-[2-[3-[(4-fluorophenyl)methyl]-3,8-diazabicyclo[3.2.1]oct-8-y1]-2-oxoethoxy]phenyl]amino]carbonyl]amino](9C1) (CA INDEX NAME)

RN 417726-75-1 CAPLUS
CN 3,8-Diazabicyclo[3.2.1]octane, 8-[[2-[(aminocarbonyl)amino]-5-chlorophenoxy]acetyl]-3-[(4-fluorophenyl)methyl]- [9CI) (CA INDEX NAME)

L17 ANSWER 3 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)

Ne-S-NH-C

O-CH₂-C

N-CH₂

N-CH₂

F

RN 417726-70-6 CAPLUS CN Benzamide, 4-chloro-2-[2-[8-[(4-fluorophenyl)methyl]-3,8-diazabicyclo[3.2.1]oct-3-yl]-2-oxoethoxy]-N-1H-tetrazol-5-yl- (9CI) (CA INDEX NAME)

$$\begin{array}{c} \text{F} & \text{CH}_2 - \bigvee_{N} N - \text{C-CH}_2 - \text{O} \\ \text{O} & \text{O} - \text{C} \\ \text{N} & \text{N} - \text{N} \\ \text{N} - \text{N} \\ \text{N} - \text{N} \end{array}$$

RN 417726-71-7 CAPLUS
CN Benzamide, N-{2-amino-2-oxoethyl}-4-chloro-2-[2-[8-[{4-fluorophenyl}]methyl]-3,8-diazabicyclo[3.2.1]oct-3-yl]-2-oxoethoxy]- {9CI} (CA INDEX NAME)

RN 417726-72-8 CAPLUS
CN 3-Pyridinecarboxamide, N-(2-amino-2-oxoethyl)-5-chloro-2-[2-[3-[4-fluorophenyl)methyl]-3,8-diazabicyclo[3.2.1]oct-8-yl]-2-oxoethoxy]- (9CI) (CA INDEX NAME)

L17 ANSWER 3 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)

RN 417726-76-2 CAPLUS
CN .beta.-Alanine, N-[[[4-chloro-2-[2-[3-[(4-fluorophenyl)methyl]-3,8-diazabicyclo[3.2.1]oct-8-yl]-2-oxoethoxy]phenyl]amino]carbonyl]- (9CI) (CA INDEX NAME)

RN 417726-77-3 CAPLUS
CN 3,8-Diazabicyclo[3.2.1]octane, 3-[[2-[(aminocarbonyl)amino]-4-chlorophenoxy]acetyl]-8-[(4-fluorophenyl)methyl]- (9CI) (CA INDEX NAME)

RN 417726-78-4 CAPLUS

Acetamide, 2-[[[[5-chloro-2-[2-[3-[(4-fluorophenyl]methyl]-3,8-diazabicyclo[3.2.1]oct-8-yl]-2-oxoethoxy]-3-pyridinyl]amino]carbonyl]amino] (OCI)

L17 ANSWER 3 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)

RN 417726-80-8 CAPLUS
CN 3,8-Diazabicyclo[3.2.1]octane, 8-[[2-amino-4-(trifluoromethyl)phenoxy]acet
yl]-3-[(4-fluorophenyl)methyl]- (9CI) (CA INDEX NAME)

RN 417726-81-9 CAPLUS
CN 3,8-Diazabicyclo{3.2.1}octane, 8-{(2-amino-4-chlorophenoxy)acety1}-3-{(4-fluorophenyl)methy1}- (9CI) (CA INDEX NAME)

RN 417726-82-0 CAPLUS
CN 3,8-Diazabicyclo[3.2.1]octane, 3-[(2-amino-4-chlorophenoxy)acetyl]-8-[(4-fluorophenyl)methyl]- (9CI) (CA INDEX NAME)

RN 417726-84-2 CAPLUS
CN 3,8-Diazabicyclo[3,2.1]octane, 8-[[(2-amino-6-methyl-3-pyridinyl)oxylacetyl]-3-[(4-fluorophenyl)methyl]- (9CI) (CA INDEX NAME)

L17 ANSWER 3 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)

RN 417726-88-6 CAPLUS
CN 3,8-Diazabicyclo[3.2.1] octane, 3-[(4-fluorophenyl)methyl]-8-[[2[(methylsulfonyl)amino]-4-(trifluoromethyl)phenoxylacetyl]- (9CI) (CA
INDEX NAME)

RN 417726-89-7 CAPLUS

S,8-Diazabicyclo[3.2.1]octane, 8-[[4-chloro-2-[[methylsulfonyl]amino]phenoxy]acetyl]-3-[[4-fluorophenyl]methyl]- (CA INDEX NAME)

RN 417726-90-0 CAPLUS
CN Benzamide, 4-chloro-2-[2-[3-[(4-fluorophenyl)methyl]-3,8-diazabicyclo[3,2.1]oct-8-yl]-2-cxoethoxy]-N-[2[(methylsulfonyl)amino]ethyl]- (9CI) (CA INDEX NAME)

L17 ANSWER 3 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)

RN 417726-85-3 CAPLUS
CN Acetamide, 2-amino-N-[S-chloro-2-[2-[3-[(4-fluorophenyl)methyl]-3,8diazabicyclo[3.2.1]oct-8-yl]-2-oxoethoxy]-3-pyridinyl]- (9CI) (CA INDEX NAME)

RN 417726-87-5 CAPLUS
CN 3,8-Diazabicyclo[3.2.1]octane, 8-[[5-chloro-2-[(methylsulfonyl)amino]phenoxy]acetyl]-3-[(4-fluorophenyl)methyl]- (9CI) (CA INDEX NAME)

L17 ANSWER 3 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)

RN 417726-91-1 CAPLUS
CN 3,8-Diazabicyclo[3.2.1]octane, 3-[[4-chloro-2-[(methylsulfonyl)amino]phenoxy]acetyl]-8-[(4-fluorophenyl)methyl]- (9CI) (CA INDEX NAME)

RN 417726-92-2 CAPLUS
CN 3,8-Diazabicyclo[3.2.1]octane, 8-[[[5-chloro-3-[(methylsulfonyl)amino]-2-pyridinyl]oxy]acetyl]-3-[(4-fluorophenyl)methyl]- (9CI) (CA INDEX NAME)

RN 417726-93-3 CAPLUS
CN 3,8-Diazabicyclo[3.2.1]octane, 3-[(4-fluorophenyl)methyl]-8-[[[6-methyl-2[(methylsulfonyl)amino]-3-pyridinyl]oxy]acetyl]- (9CI) (CA INDEX NAME)

L17 ANSWER 3 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)

417728-09-7 CAPLUS
Benzamide, 5-chloro-2-{2-[3-{(4-fluorophenyl)methyl]-3,8-diazabicyclo[3.2.1}oct-8-yl]-2-oxoethoxy]- (9CI) (CA INDEX NAME)

ΙT 417727-51-6P

41727-51-6P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(intermediate) prepn. of bridged piperazine derivs. as inhibitors of chemokines binding to CCR1 receptors)
417727-51-6 CAPLUS
Carbamic acid, [2-[5-chloro-2-[2-[3-[(4-fluorophenyl)methyl]-3,8-diazabicyclo[3.2.1]oct-8-yl]-2-oxoethoxyl-3-pyridinyl]amino]-2-oxoethyl]-,
1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & \\ & & \\ &$$

417727-48-1, 4-Chloro-2-[2-[3-(4-fluorobenzyl)-3,8-diazabicyclo[3,2.1]oct-8-yl]-2-oxosthoxy]benzoic acid methyl ester 417727-49-2, 5-Chloro-2-[2-[3-(4-fluorobenzyl)-3,8-diazabicyclo[3,2.1]oct-8-yl]-2-oxosthoxy]benzoic acid 417727-50-5, 2-(5-Chloro-2-nitrophenoxy)-1-[3-(4-fluorobenzyl)-3,8-diazabicyclo[3,2.1]oct-8-yl]ethanone

ANSWER 4 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN
SSION NUMBER: 2002:104660 CAPLUS
136:151174

Preparation of 3-[(arylazabicycloalkyl)alkyl]quinazoli
ne-2,4-diones as serotonin reuptake inhibitors and
S-HTZA receptor antagonists
Butler, Todd Williams Fliri, Anton Franz Josef;
Gallaschun, Randall Jenes
TX ASSIGNEE(S): Ffizer Products Inc., USA
UT. Pat. Appl., 68 pp.
CODEN: EPXXLW
HENT TYPE: Patent INVENTOR (S): PATENT ASSIGNEE(S): SOURCE: DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION: Patent English

PATENT NO. KIND DATE APPLICATION NO. DATE HP 1178048 A1 20020206 EP 2001-306629 20010802
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
IE, SI, LT, LV, FI, RO
US 2002052355 A1 20020502 US 2001-920500 20010801
US 6552015 B2 20030422
BR 2001003210 A 20020326 BR 2001-3210 20010803
JP 2002114789 A2 20020416 JP 2001-3236982 20010803
JP 2002114789 A2 20020416 JP 2001-3236982 20010803
JR 30010803 JRY APPLIN INFO . 20020326 BR 2001-3210 .2 20020416 JP 2001-236982 US 2000-222707P P MARPAT 136:151174 20010803 PRIORITY APPLN. INFO.: OTHER SOURCE(S):

$$\bigcup_{C1}^{\circ} \bigvee_{H}^{N} \bigvee_{O}^{N} \bigvee_{C1}^{N} \bigvee_{D1}^{N} \bigvee_{C1}^{N} \bigvee_{D1}^{N} \bigvee_{C1}^{N} \bigvee_{D1}^{N} \bigvee_{D1}^{N}$$

R(CH2) nZRl [I; e.g., (un) substituted 2,4-dioxoquinazolin-3-yl; Rl = e.g., (un) substituted Ph: Z = azabicycloalkylene; n = 3 or 4] were prepd. Thus, 3,2-Cl [KZN] OSH3COZH underwent cyclocondensation/cyclization with Cl(CH2) NXOC to give 8-chloro-3,4-dihydro-ZH-l-oxa-4a,9-diazaanthracene-10-one which underwent aminative ring opening with 3-(4-chlorophenyl)-3,8-diazabicyclo[3,2.1] obtaine to give title compd. II. Data for biol. activity of I were given. 395095-29-7-395055-5-9P
RL: RCT (Reactant): SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn. of 3-[(arylazabicycloalkyl) alkyl]quinazoline-2,4-diones as serotonin reuptake inhibitors and 5-HT2A receptor antagonists)
395095-29-7 CAPIUS
3,8-Diazabicyclo[3,2.1]octane, 3-(4-fluorophenyl)-8-(phenylmethyl)- (9CI) (CA INDEX NAME)

ANSWER 3 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)
RL: RCT (Reactant), RACT (Reactant or reagent)
(precursor; prepn. of bridged piperazine derivs. as inhibitors of chemokines binding to CCRI receptors)
417727-48-1 CAPLUS
Benzoic acid, 4-chloro-2-[2-[3-[(4-fluorophenyl)methyl]-3,8-diazabicyclo[3.2.1]oct-8-yl]-2-oxoethoxy]-, methyl ester (9CI) (CA INDEX

417727-49-2 CAPLUS Benzoic acid, 5-chloro-2-[2-[3-[(4-fluorophenyl)methyl]-3,8-diazabicyclo[3,2.1]oct-8-yl]-2-oxoethoxy]- (9CI) (CA INDEX NAME)

417727-50-5 CAPLUS 3,8-Diazabicyclo[3.2.1]octane, 8-[(5-chloro-2-nitrophenoxy)acetyl]-3-[(4-fluorophenyl)methyl]- (9СІ) (СА INDEX NAME)

L17 ANSWER 4 39 CAPLUS COPYRIGHT 2003 ACS on STN 395059-55 CAPLUS RN CN 38.0-Diazabi tyclo[3.2.1] octane, 8-(4-chlorophenyl)-3-(phenylmethyl)- (9CI) (CA INDEX NAME)/ CH2-Ph REFERENCE COUNT: 13

THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

WER S OF 39 CAPLUS COPYRIGHT 2003 ACS ON STN DN NUMBER: 2002:104659 CAPLUS I NUMBER: 136:151188 136:151188

Preparation of 3-phenyl-3,8-diazabicyclo(3.2.1)octanes and analogs as serotonin reuptake inhibitors
Fliri, Anton Franz Josef; Gallaschun, Randall James
Pfizer Products Inc., USA
Eur. Fat. Appl., 29 pp.
CODEN: EPEXUM
Patent
English MENT NUMBER: INVENTOR(S): PATENT ASSIGNEE(S): SOURCE: DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION: English PATENT NO. KIND DATE APPLICATION NO. DATE EP 1178047 EP 1178047 A1 20020206 EP 2001-306313 20010723
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
IE, SI, LT, LV, FI, RO
BR 2001003180 A 20020326 BR 2001-3180 20010801
US 2002068748 A1 20020326 US 2001-920587 20010801
US 6531466 B2 20030311
JP 2002088084 A2 20020327 JP 2001-235227 20010802 JP 2001-235227 20010802 US 2000-222706P P 20000803 PRIORITY APPLN. INFO.: OTHER SOURCE(S): CASREACT 136:151188: MARPAT 136:151188

R3Zhl [R1 = (un)substituted Phr R3 = H, alkyl, (hetero)aryl, etc.; Z = e.g., 3,8-diazabicyclo[3.2.1]octane-8,3-diyl] were prepd. as serotonin reuptake inhibitors (no data). Thus, 1-benzyl-2,5-bis(chloromethyl)pyrrolidine (prepn. given) was cyclocondensed with 4-clCGH4NH2 and the product hydrogenolized to give title compd. I. 389038-29-7e, 8-Benzyl-3-(4-fluorophenyl)-3,8-diazabicyclo[3.2.1]octane 395059-41-3P, 8-Benzyl-3-(4-fluorophenyl)-3,8-diazabicyclo[3.2.1]octane 395059-55-9P, 3-Benzyl-8-(4-chlorophenyl)-3,8-diazabicyclo[3.2.1]octane 395059-55-9P, 3-Benzyl-8-(4-chlorophenyl)-3,8-diazabicyclo[3.2.1]octane SPM (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses) (prepn. of 3-phenyl-3,8-diazabicyclo[3.2.1]octanes and analogs as serotonin reuptake inhibitors) 395059-29-7 CAPUS 3,8-Diazabicyclo[3.2.1]octane, 3-(4-fluorophenyl)-8-(phenylmethyl)-(90 AB ΙT

3,8-Diazabicyclo[3.2.1]octane, 3-(4-fluorophenyl)-8-(phenylmethyl)- (9CI) (CA INDEX NAME)

L17 ANSWER 6 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 2001:629422 CAPLUS
DOCUMENT NUMBER: 136:200161
TITLE: 3,8-Diazabicyclo-[3.2.1]-octane derivatives as analogues of ambasilide, a Class III antiarrhythmic agent
AUTHOR(S): Villa, S.; Barlocco, D.; Cignarella, G.; Papp, G. J.;
Balati, B.; Takacs, J.; Varro, A.; Borosy, A.; Keseru, K.; Matyus, P.
CORPORATE SOURCE: Balati, B.; Takacs, J.; Varro, A.; Borosy, A.; Keseru, K.; Matyus, P.
SURCE: Live of Chimics Farmaceutica, Universita di Milano, Milan, 20131, Italy
SOURCE: EUROPEAN JOURNAL OF MEDICAL CONTROL OF MEDIC

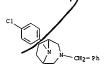
CH2-Ph

401514-13-4 CAPLUS
Benzenamine, 4-(2-(3-(phenylmethyl)-3,8-diazabicyclo{3.2.1}oct-8-yl|ethoxy|- (SCI) (CA INDEX NAME)

H2N. -0-CH₂-CH₂-NNCH₂-Ph L17 ANSWER 5 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)

395059-41 RN CN clo[3.2.1]octane, 3-(4-chlorophenyl)-8-(phenylmethyl)- (9CI)

395059-55-9 CAPLUS Glo[3.2.1]octane, 8-(4-chlorophenyl)-3-(phenylmethyl)- (9CI)



REFERENCE COUNT:

THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 6 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)
401514-10-1P 401514-11-2P 401514-12-3P
401514-14-5P 401514-15-6P
RL: PAC (Pharmacological activity); PRP (Properties); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(prepn. and conformation energy anal. of antiarrhythmic diazabicyclocotanes as analogs of ambasilide)
401514-10-1 CAPLUS
3,8-Diazabicyclo[3.2.1]octane, 8-[4-[(methylsulfonyl)amino]benzoyl]-3-(phenylmethyl)- (9CI) (CA INDEX NAME)

401514-11-2 CAPLUS
3,8-Diazabicyclo[3,2,1]octane, 8-[4-[bis(methylsulfonyl)amino]benzoyl]-3(phenylmethyl)- {SCI} (CA INDEX NAME)

CH2-Ph

401514-12-3 CAPLUS 3,8-Diazabicyclo[3.2.1]octane, 8-(4-nitrobenzoyl)-3-(phenylmethyl)- (9CI) (CA INMEX NAME)

02N

401514-14-5 CAPLUS Acetamide, $N=\{4-[2-[3-(phenylmethyl)-3,8-diazabicyclo{3.2.1}oct-8-yl]ethoxy]phenyl}- (9CI) (CA INDEX NAME)$

L17 ANSWER 6 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN

401514-15-6 CAPLUS
Methanesulfonamide, N-[4-[2-[3-(phenylmethyl]-3,8-diazabicyclo[3.2.1]oct-8-yl]ethoxy]phenyl}- (9CI) (CA INDEX NAME)

401514-18-9P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(prepn. of antiarrhythmic diazabicyclooctanes via alkylation or amidation of N-protected diazabicyclooctane)
401514-18-9 CAPLUS
3.8-Diazabicyclo[3.2.1]octane, 3-(4-aminobenzoyl)-8-(phenylmethyl)- (9CI) (CA INDEX NAME)

THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

(Continued)

L17 ANSWER 7 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN (Continued) alk(en)yloxy, 2- or 3-indolyl, Ar, Ar-alk(en)yl, Ar = selected (un)substituted carbo- or heterocyclic arom. groups; Q, A = H, Ar, alk(en/yn)yl, cycloalk(en)ylalk(en/yn)yl, their N/O/S-heteroat. analogs, etc.; and their pharmaceutically acceptable salts]. Over 40 examples were prepd, and tested. For instance, (IS, Sh)-8-benzyl-3, 8-diaza-3-(3-phenylpropyl)bicyclo(3.2.1)cotan-2-one (prepn. given) underwent hydrogenolytic debenzylation and amidation with 3, 4,5-trimethoxyphenyl-2-coxoacetyl chloride to give title compd. II. In a fluorescence polarization assay of FKEPI2 binding, II gave 344 inhibition at 1 .mu.M, and its 3-(3-pyridyloxy)propyl analog gave 98% inhibition.

34462-40-49 34462-41-8P 34462-45-8P 34462-45-9P 34462-47-1P 34462-48-2P 34462-49-3P 34462-53-P 344462-53-PP 34462-53-PP 34462-53-PP 34462-53-PP 34462-53-PP RIC. RCT (Reactantl) SFN (Synthetic preparation); PREP (Preparation); RACT

344462-53-99 344462-53-1P
RE: RCT (Reactant): SFN (synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(stereoselective prepn. and biol. activity of bicyclic diamides as neuroprotective agents and peptidylprolyl isomerase (PPIase or rotamase) inhibitors)
344462-40-4 CAPLUS

Jee602-4U-4 CAPLUS
3,8-Diazabicyclo{3.2.1}octan-2-one, 8-(phenylmethyl)-3-(3-phenylpropyl)-,
(15,5R)- (9C1) (CA INDEX NAME)

Absolute stereochemistry.

344462-41-5 CAPLUS

3.8-Diazabicyclo[3.2.1]octan-2-one, 3-(4-phenylbutyl)-8-(phenylmethyl)-, (15.5R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

344462-42-6 CAPLUS
3,8-Diazabicyclo[3.2.1]octan-2-one, 8-(phenylmethyl)-3-[3-(3,4,5-trimethoxyphenyl)propyl]-, (15,5R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

Page 12

NSWER 7 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN
10N NUMBER: 2001:435076 CAPLUS
135:46205
Preparation of neurotrophic bicyclic diamides with peptidylprolyl isomerase (PPlase or rotamase) inhibitory activity
Dubowchik, Gene Michael; Provencal, David Paul ASSIGNEE(s): Pristol-Hyers Squibb Company, USA
11 TYPE: Patent

INVENTOR(S): PATENT ASSIGNEE(S): SOURCE:

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION: Patent English

The invention relates to the design, synthesis, and the peptidylprolyl isomerase (PPIase or rotamase) inhibitory activity of novel bicyclic diamide compds. that are neuroprotective and/or neurotrophic agents (i.e. compds. capable of stimulating growth or proliferation of nervous tissue), and that bind to immunophilins such as FKBP12 and inhibit their rotamase activity. This invention also relates to pharmaceutical compos. comprising these compds. The compds. are encompassed by structure I (X = 0, F2; n = 1, 2; m = 0, 1, 2; p = 0, 1; D = alk(en)yl, cycloalk(en), AB

L17 ANSWER 7 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN

344462-43-7 CAPLUS 3,8-Diazabicyclo[3.2.1]octan-2-one, 3-{2-{3,4-dimethoxyphenyl}ethyl}-8-{phenylmethyl}-, (15,5R)- (9C1) (CA INDEX NAME)

344462-44-8 CAPLUS 3.8-Dlazabicyclo[3.2.1]octan-2-one, 3-[3-(3,4-dimethoxyphenyl)propyl]-8-[phenylmethyl-, (15,5K)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

344462-45-9 CAPLUS 3.8-Dlazabicyclo[3.2.1]octan-2-one, 3-[4-(3.4-dimethoxyphenyl)butyl]-8-(phenylmethyl)-, (15.5%)- (9CI) (CA INDEX NAME)

L17 ANSWER 7 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)

344462-47-1 CAPLUS 3,8-Diazabicyclo[3.2.1]octan-2-one, 8-(phenylmethyl)-3-[3-phenyl-1-(2-phenylethyl)propyl]-, (15,5%)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

344462-48-2 CAPLUS 3,8-Diazabicyclo[3.2.1]octan-2-one, 3-[4-(3,4-dimethoxyphenyl)-1-(3-phenylpropyl)butyl]-8-(phenylmethyl)-, (1S,5R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

344462-49-3 CAPLUS
3,8-Diazabicyclo[3.2.1]octan-2-one, 8-{phenylmethyl}-3-{2-(3-phenylpropyl)-5-(3,4,5-trimethoxyphenyl)pentyl]-, (1S,5R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

ANSWER 7 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN (Continued) 3,8-Diazabicyclo[3.2.1]octan-2-one, 3-[4-(3,4-dimethoxyphenyl)-2-[(3,4-dimethoxyphenyl)methyl]butyl]-8-(phenylmethyl)-, (1S,SR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

344462-53-9 CAPLUS 3,8-Diazabicyclo[3.2.1]octan-2-one, 3-[2-[2-(3,4-dimethoxyphenyl)ethyl]-4-phenylbutyl]-8-(phenylmethyl)-, (15,5R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

344462-55-1 CAPLUS 3,8-Diazabicyclo[3.2.1]octan-2-one, 8-(phenylmethyl)-3-{3-pyridinyloxy)propyl}-, (15,5R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

REFERENCE COUNT:

THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L17 ANSWER 7 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN

(Continued)

$$\begin{array}{c} \text{OMe} \\ \text{OMe} \\ \text{OMe} \\ \text{OMe} \\ \text{OMe} \\ \text{OHe} \\ \text{OHe$$

344462-50-6 CAPLUS 3,8-Diazabicyclo[3.2.1]octan-2-one, 8-(phenylmethyl)-3-[5-phenyl-2-(3-phenylpropyl)pentyl]-, (15,5R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

344462-51-7 CAPLUS 3,8-Diazabicyclo[3.2.1]octan-2-one, 3-{5-(3,4-dimethoxyphenyl)-2-{3-(3,4-dimethoxyphenyl)popyl}pentyl)-8-(phenylmethyl)-, (1S,5R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

344462-52-8 CAPLUS

L17 ANSWER 7 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)

LAY ANSWER 8 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN
ACSSION NUMBER: 2001:122158 CAPLUS
DOCUMENT NUMBER: 304:131179
3,8-Distrabicyclo[3.2.1]octan-2-one Peptide Mimetics:
Synthesis of a Conformationally Restricted Inhibitor
of Farnesyltransferase
Dinamore, Christopher J., Bergman, Jeffrey M.,
Bogusky, Michael J., Culberson, J. Christopher,
Hamilton, Kelly A., Graham, Samuel L.
CORPORATE SOURCE: Departments of Medicinal Chemistry Molecular Systems
and Cancer Research, Merck Research Laboratories, West
Point, PA, 19468, USA
Organic Letters (2001), 3(6), 865-868
CODEN: ORLEFT; ISSN: 1523-7060

PUBLISHER: American Chemical Society
Journal
LANGUAGE: English
COTHER SOURCE(S): CASREACT 134:311179
AB A new synthesis of the 3,8-diazabicyclo[3.2.1]octan-2-one framework is
described. Transannular enolate alkylation of piperazinone derivs.
provides a flexible route to highly constrained bicyclic peptidomimetic
synthons with substitution at the C. alpha. position. The chem. was used
to produce a conformationally constrained farnesyltransferase inhibitor,
which aided the elucidation of enzyme-bound conformation.

IT 335160-93-5 935161-00-77
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
(prepn. of a conformationally restricted farnesyltransferase inhibitor
based on 3,8-diazabicyclo[3.2.1]octanone)

RM 335160-93-5 CAPIUS

CM Benzonitrile, 4-[(5-[(1R,55)-3-[(2,4-dimethoxyphenyl)methyl]-2-oxo-3,8diazabicyclo[3.2.1]oct-8-yl]methyl]-1H-imidazol-1-yl]methyl]-2-fluoro(9CI) (CA INDEX NAME)

Absolute stereochemistry

335161-00-7 CAPLUS

Benzonitrile, 4-[[5-[[(1R,55)-3-[[2-chloro-5-[(methylsulfonyl)oxy]phenyl]methyl]-1H-imidazol-yl]methyl]-2-fluoro- (9CI) (CA INDEX NAME)

ANSWER 9 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN SION NUMBER: 1999:244249 CAPLUS 130:311770 SION NUMBER:

130:311770 Benzocondensed derivatives as rigid analogs of the .mm.-opioid agonist 3(8)-cinnamy1-8(3)-propiony1-3,8-diazabicyclo[3.2.1]octanes: synthesis, modeling, and Cignarella, G.: Barlocco, D.: Vianello, P.: Villa, S.: Pinna, G. A.: Fadda, P.: Fratta, W.: Toma, L.: Gessi,

S. Istituto di Chimica Farmaceutica e Tossicologica, CORPORATE SOURCE:

Milan, 20131, Italy
Farmaco (1998), 53(10,11), 667-674
CODEN: FRMCE8; ISSN: 0014-827X
Elsevier Science S.A.

PUBLISHER:

DOCUMENT TYPE: LANGUAGE: GI English

SOURCE:

AUTHOR(S):

A new series of rigid analogs I and II [X = 0, NH, 5, CH:CH, CH2, (CH2)2, (CH2)3] of the previously reported analgesic 3-cinnamyl-8-propionyl-3,8-diazabicyclo[3,2.1] octane and its reverted isomer 3-propionyl-9-cinnamyl (III) were synthesized, in which the cinnamyl substituent is incorporated in benzocondensed bicyclic systems. Binding assays for the affinity towards .mu. receptors indicated that, while in the reverted series II the .beta.-naphthylmethyl and the benzocycloheptenylmethyl deriv. favorably compared with III, all compds. I displayed a .mu.-affinity lower than that of the parent. Modeling studies suggest that the flexibility of the cinnamyl side chain plays an important role for activity. for activity. 172207-91-9P 223593-83-7P

172207-91-99 223593-83-79 RE: RCT (Reactant): FREP (Preparation): RACT (Reactant) of reagent) (prepn. and n.w.-opioid agonist activity of cinnamylpropionyldiazabicyclooctanes) 172207-91-9 CAPUS 3,8-Diazabicyclo[3.2.1]octane, 8-(1H-indol-2-ylcarbonyl)-3-(phenylmethyl)-(SCI) (CA INDEX NAME)

ANSWER 8 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN plute stereochemistry.

335160-83-3P
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of a conformationally restricted farnesyltransferase inhibitor based on 3,8-diazabicyclo[3,2.1]octanone)
335160-83-3 CAPLUS
3,8-Diazabicyclo[3,2.1]octane-8-carboxylic acid, 3-[(2,4-dimethoxyphenyl)methyl]-2-oxo-1-(phenylmethyl)-, 1,1-dimethylethyl ester, (15,5S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

REFERENCE COUNT:

39 THERE ARE 39 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L17 ANSWER 9 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)

223593-83-7 CAPLUS 3,8-01azabicyclo[3.2.1]octane, 8-(2-benzofuranylcarbonyl)-3-(phenylmethyl)-(9CI) (CA INDEX NAME)

- CHo - Ph REFERENCE COUNT:

THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

137 ANSWER 10 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 1998:88086 CAPLUS
128:979657
MONO- and Disubstituted-3,8-diazabicyclo(3.2.1]octane
Derivatives as Analgesics Structurally Related to
Epibatidine: Synthesis, Activity, and Modeling
Barlocco, Danielar Cignarella, Giorgio Tondi,
Donatellar Vianello, Paolar Villa, Stefaniar
Bartolini, Alessandro Ghelardini, Carlar Galecti,
Nicolettar Anderson, David J. Kuntzveller, Theresa
A., Colombo, Diego: Toma, Lucio
CORPORATE SOURCE: Istitud di Chinica Farmaceutica e Tossio, Universita
Degli Studi di Milano, Milan, 20131, Italy
SOURCE: Journal of Medicinal Chemistry (1998), 41(5), 674-681
DOCUMENT TYPE: Journal
LANGUAGE: English
AB A series of 3,8-diazabicyclo[3.2.1]octanes substituted either at the 3
position or at the 8 position by a chlorinated heteroaryl ring were
synthesized, as potential analogs of the potent natural analgesic
epibatidine. When tested in the hot plate assay, the majority of the
compds. showed significant effects, the most interesting being the
3-(6-chloro-3-pyridazinyl)-3,8-diazabicyclo[3.2.1]octane [1]. At a s.c.
dose of 1 mg/kg, I induced a significant increase in the pain threshold,
its action lasting for about 45 min. It also demonstrated good protection
at a dose of 5 mg/kg in the mouse abdominal constriction test, while at 20
mg/kg it completely prevented the constrictions in the animals.
Administration of naloxone (1 mg/kg i.p.) did not antagonize its
antinociception while mecamylamine (2 mg/kg i.p.) did, thus suggesting the
involvement of the nicotinic system in its action. Binding studies
confirmed high affinity for the alpha.4.beta.2 maChR subtype (Ki = 4.1
.+-. 0.21 mM). NAChR functional activity studies on three different cell
lines showed that I was devoid of any activity at the neuromuscular
junction. Finally, due to the analogy in their pharmacol. profile with
that of epibatidine, compds. were compared from a structural and
conformational point of view through theor. calens. and high-field IH NMR
spectroscopy. Results i

ANSWER 11 OF 39 CAPLUS COPYRIGHT 2003 ACS ON STN SION NUMBER: 1996:567069 CAPLUS ENT NUMBER: 125:221956

MENT NUMBER:

125:221856
Preparation of quinazoline derivatives as adrenergic .alpha.IC receptor antagonists
Andrews, Robert Carls Brown, Peter Jonathan; Deaton, David Norman; Drewry, David Harold; Foley, Michael Andrew; Garrison, Deanna T., Marron, Brian Edward; Smalley, Terrence L.; Berman, Judd M.; Noble, Stewart Alvyvn.

PATENT ASSIGNEE(S):

Alywyn Glako Inc, USA Brit. UK Pat. Appl., 190 pp. CODEN: BAXXDU SOURCE:

DOCUMENT TYPE: LANGUAGE: English

FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

INVENTOR (S)

PATENT NO. KIND DATE APPLICATION NO. DATE GB 2295387 A1 19960529 GB 1994-23635 19941123 PRIORITY APPLN. INFO.: OTHER SOURCE(S): GI GB 1994-23635 MARPAT 125:221856

I

Title compds. (I: R = 2122 = R4; R1 = H, halo, alkyl, alkoxy, etc.; R4 = H, (di)(alkyl)amino, phenyl(oxy), etc.; R5, R6 = H, OH, halo, alkyl, alkoxy; Z1 = NH, 2-(piperazine-1,4-diyl)ethylimino, inminopyridine-5,2-diylimino, etc.; Z2 = bond, (un)substituted alkylene) were prepd. as adrenergic alpha.lC receptor antagonists (no data). Thus, 4-chloro-2-phenylquinazoline was aminated by 4-amino-1-benzylpiperidine and the deprotected product N-alkylated by 5-(2-chloroethyl)-2-methoxybenznesulfonamide (prepn. given) to give title compd. II.
18115-65-5P AB

L17 ANSWER 10 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN

L17 ANSWER 11 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN



09/972/177

CAPLUS COPYRIGHT 2003 ACS on STN
1995:994356 CAPLUS
124:55984
3,8-Diazabicyclo(3.2.1)octane derivatives having
analgesic activity
Cignarella, Giorgio
Riace Establishment, Liechtenstein
PCT Int. Appl., 21 pp.
CODEN: PIXXIO2
Patent INVENTOR(S):

ASSIGNEE (S): PATENT SOURCE:

DOCUMENT TYPE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

OTHER SOURCE(S):

Title compds. I and their pharmaceutically acceptable salts are claimed and/or prepd. [wherein R. noteq. Rl/ R, Rl = straight or branched C2-8 acyl., CH2AB; A = bond between 2 C atoms, CH:CH, or CH2CO, B = C6-10 aryl, (un) substituted with .gtoreq. 1 of COMHR, carbowy, cyano, NOZ, or NHICOR; or (un) substituted aroa. heterocyclic or alicyclic group with 5 or 6 members in the ring, optionally benzocondensed, concg. .gtoreq. 1 of N, O, or S; when R or Rl = propionyl, the other .noteq. cinnamyl or p-nitrocinnamyl; when R = propionyl, Rl .noteq. o- or m-nitrocinnamyl]. I have central analgesic activity comparable to morphine, and bind selectively to opioid .mu. receptors with similar affinity. However, I are substantially free of withdrawal phenomena, as detd. by the jumping test in mice, where activity was 3-20 times lower than morphine after 21 analgesically equipotent doses in 7 days (no addnl. data). For example,

OF 39 CAPLUS COPYRIGHT 2003 ACS on STN ER: 1995:898142 CAPLUS R: 124:117785 SION NUMBER: ENT NUMBER: 124:117785
Concise synthesis of new homosza sugars. Fully substituted, functionally diverse pyrrolidines Campanini, Laurence: Dureult, Annie; Depezay, Jean-Claude
Lab. Chim. Biochim. Pharmacologiques Toxicologiques, Univ. Rene Descartes, Paris, 75270, Fr.
Tetrahedron Letters (1995), 36(44), 8015-18
CODEN: TELEAY; ISSN: 0040-4039 AUTHOR (S): CORPORATE SOURCE: PUBLISHER: DOCUMENT TYPE: LANGUAGE: GI Elsevier

English

Five-membered deoxyaza sugars, e.g. I, of D-gluco configuration, bearing an aminomethyl, a bromomethyl or a thiomethyl group at the pseudo anomeric position, were prepd. by nucleophilic opening of C2 sym. bis-acrities followed by cheaoselective transformations of the nucleophile. The 1-bromo-2,5-imino-D-glucitol could be converted into attractive bicyclic compds., e.g. II. 172795-11-89

RE: SPN (Synthetic preparation); PREP (Preparation) (synthesis of pyrrolidine homoaza sugars via nucleophilic ring opening and intramol. cyclocondensation of bis-aziridines) 172795-11-8 CAPLUS

3,8-Diazabicyclo[3.2.1]octane, 6,7-bis(phenylmethoxy)-3,8-bis(phenylmethyl)-, [1R-(6-endo,7-exo)]- (SCI) (CA INDEX NAME)

Absolute stereochemistry.

ANSWER 12 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN (Continued) N-alkylation of N8-acetyl-3,8-diazabicyclo[3.2.1]octane with cinnamyl chloride and K2CO3 in refluxing Me2CO gave I [R = Ac; R1 = CH2CH:CHPh]. 172207-91-99

172207-91-99
REL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(intermediate; prepn. of diazabicyclooctane derivs. as analgesics)
172207-91-9 CAPLUS
3,8-Diazabicyclo[3,2.1]octane, 8-(1H-indol-2-ylcarbonyl)-3-(phenylmethyl)-(SCI) (CA INDEX INME)

AUTHOR (S):

CORPORATE SOURCE:

SOURCE:

PUBLISHER:

DOCUMENT TYPE: LANGUAGE:

OTHER SOURCE (S)

ANSWER 14 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN

SSION NUMBER: 1995:502804 CAPLUS

123:198662
Synthesis of 5, 7, 8, 9, 10, 11-hexahydro-7-oxo-8, 11-iminoazepino[1, 2-b]isoquinolines

FORATE SOURCE: Chem. Dep., Univ. Manchester, Manchester, M13 9PL, UK

Heterocycles (1995), 40(2), 983-91

CODEN: HTCYAN; ISSN: 0385-5414

Japan Institute of Heterocyclic Chemistry

Journal

UMAGE: CASRARCT 123:198662

CASRARCT 123:198662

ANSWER 14 - OF 15 OF

167874-03-59
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(synthesis of hexahydroiminoazepinoisoquinolines)
167874-03-5 CAPLUS
3,8-Diazabicyclo[3.2.1]octane-6-carboxylic acid, 3-[(2-bromophenyl)methyl]-4-methylene-2-oxo-8-(phenylmethyl)-, methyl ester, exo- (SCI) (CA INDEX NAME)

Relative stereochemistry.

L17 ANSWER 15 OF 39
ACGESSION NUMBER:
1995:332276 CAPLUS
DOCUMENT NUMBER:
1123:198733
1,3-Dipolar cycloadditions to oxidopyraziniums
A. Allway, Philip
A. Beddeoes, Roy L.; Scopes, David I. C.; Joule, John
A.
CORPORATE SOURCE:
SOURCE:
Heterocycles (1995), 40(1), 331-47
CODEN: HTCYAN, ISSN: 0385-5414
Japan Institute of Heterocyclic Chemistry
DOCUMENT TYPE:
Journal
LANGUAGE:
English

PUBLISHER: DOCUMENT TYPE: LANGUAGE: GI

The cycloaddn. of dipolarophiles to oxidopyraziniums I (R1 = Me, R2 = Me, benzyl, R1 = 3-methoxybenzyl, R2 = Me) are described. Bicyclic products such as II are obtained.
167418-00-0P
RL: RCT (Reactant): SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn. of)
167418-00-0 CAPLUS
3,8-Diazabicyclo[3.2.1]octan-2-one, 4-methylene-8-(phenylmethyl)-6-(phenylsulfonyl)-, exo- (9CI) (CA INDEX NAME)

Relative stereochemistry.

167418-05-5P 167418-06-6P 167418-07-7P 167418-15-7P 167418-19-1P 167418-22-6P RL: SPN (Synthetic preparation); PREP (Preparation)

(prepn. of) 167418-05-5 CAPLUS 3,8-Diazabicyclo[3.2.1]octan-2-one, 4-methylene-8-(phenylmethyl)-6-(4-

L17 ANSWER 15 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)

167418-19-1 CAPLUS 3,8-Diazabicyclo[3.2.1]octan-2-one, 4-methoxy-4-methyl-8-(phenylmethyl)-6-(phenylsulfonyl)- (9CI) (CA INDEX NAME)

167418-22-6 CAPLUS 3,8-Diazabicyclo[3.2.1]octane-3-carboxylic acid, 4-methylene-2-oxo-8-(phenylmethyl)-6-(phenylmulfonyl)-, 1,1-dimethylethyl ester, exo- (9CI) (CA INDEX NAME)

Relative stereochemistry.

L17 ANSWER 15 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN pyridinyl)-, endo- (9C1) (CA INDEX NAME)

Relative stereochemistry.

167418-06-6 CAPLUS 3,8-Diazabicyclo[3.2.1]octan-2-one, 4-methylene-8-(phenylmethyl)-6-(2-pyridinyl)-, endo- (9CI) (CA INDEX NAME)

167418-07-7 CAPLUS
3.8-Diazabicyclo[3.2.1]octan-2-one, 4-methylene-6-phenyl-8-(phenylmethyl)-, endo- (9CI) (CA INDEX NAME)

Relative stereochemistry.

167418-15-7 CAPLUS 3,8-Diazabicyclo[3.2.1]octan-2-one, 4-methyl-6-phenyl-8-(phenylmethyl)-, (endo,endo)- (9CI) (CA INDEX NAME)

Relative stereochemistry.

LIT ANSWER 16 OF 39
ACPLUS COPYRIGHT 2003 ACS on STN
1994:77490 CAPLUS
120:77490 CAPLUS
120:77490 The Symmetric synthesis of (-)-quinocarcin via a
1,3-dipolar cycloadditive strategy
AUTHOR(S):
CORPORATE SOURCE:
SOURCE:
SOURCE:
Journal of the American Chemical Society (1993),
115(23), 10742-53
CODEN: JACSAT: ISSN: 0002-7863
Journal of Land August

DOCUMENT TYPE: LANGUAGE:

Journal English CASREACT 120:77490 OTHER SOURCE (S):

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

Details of the asym. synthesis and complete structure elucidation of (-)-quinocarcin (I), an antitumor antibiotic that inhibits DNA (and in some systems RNA) synthesis, are reported. Key steps in the synthesis include the use of an auxiliary-controlled 1,3-dipolar cycloaddn. reaction (II + III .fwdarw. IV) as well as an unprecedented intramol. inide olefination (V .fwdarw. VI) to assemble the 3,8-diazabicyclo[3.2.1] octane (CD ring) and isoquinoline (B ring) subunits of I in a stereo- and regiocontrolled manner. A comparison of the optical rotations of synthetic and natural quinocarcin confirms that the abs. configuration of this antibiotic is as depicted. Conclusive evidence for the (2aR) stereochem. in I is provided by a NOESY expt. on quinocarcin citrate.

139527-59-6P

Absolute stereochemistry. Rotation (-).

IT 139527-61-0P

L17 ANSWER 16 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
(prepn. and intramol. regioselective cyclization of)
RN 139527-61-0 CAPLUS

139527-61-0 CAPLUS
Phosphonium, [[3-mathoxy-2-[2-(methoxymethoxy)-1-[8-methyl-2,4-dioxo-6[(tetrahydro-8,8-dimethyl-2,2-dioxido-3H-3a,6-methano-2,1-benzisothiazol1(4H)-yl|carbonyl]-3,8-diazabicyclo[3.2.1]oct-3y[]ethyl|phenyl|methyl|triphenyl-, bromide, [3aR[1[15*,3(R*),5R*,6R*],3a.alpha.,6.alpha.,7a.beta.]]- (9CI) (CA INDEX
NAME)

139527-58-5P

139527-58-5P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (grepn. and methoxymethylation of)
139527-58-5 CAPLUS
3H-3a,6-Methano-2,1-benzisothiazole, hexahydro-1-[[3-{2-hydroxy-1-{2-methoxy-6-methylphenyl)ethyl}-8-methyl-2,4-dioxo-3,8-diazabicyclo[3.2.1]oct-6-yl]carbonyl]-8,8-dimethyl-, 2,2-dioxide,
[3aR-([15*,3(R*),5R*,6R*],3a.alpha.,6.alpha.,7a.beta.]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

ACCESSION NUMBER: DOCUMENT NUMBER: TITLE:

ANSWER 17 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN

SSION NUMBER: 1993:551940 CAPLUS

119:151940
E: Synthesis and opicid receptor affinity of bivalent
ligands derived from 3,8-diazabicyclo(3,2.1)cotanes

OR(S): Barlocco, Daniela: Fadda, Paola: Pratta, Walter

ORATE SOURCE: Ist. Chim. Farm. Toss., Univ. Milano, Milan, 20131,
Italy

CE: Farmaco (1993), 48(3), 387-96

CODEN: FRMCE8: ISSN: 0014-827X

MENT TYPE: Journal

AUTHOR(S): CORPORATE SOURCE:

DOCUMENT TYPE: LANGUAGE: GI

CH2CH = CHPh CH2CH=CHPh I

A new series of bivalent ligands [I, X = (CH2)2, (CH2)3, (CH2)4 or trans CH2-CH=CH-CH2], derived from the previously reported analgesic 3-cinnamyl-8-propionyl-3,8-diazabicyclo[3.2.1] octaine [II], has been synthesized and tested in vitro for their affinity towards opioid receptors and in vivo for their analgesic potency. None of the new compds. showed either appreciable affinity for opioid receptors or analgesic activity comparable to that of the model II. 149771-39-1 P49771-40-4P
RL: RCT (Reactant), SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (prepn. and debenzylation of) 149771-39-1 CAPLUS 3,8-Diazabicyclo[3.2.1] octane, 8,8'-(1,4-dioxo-1,4-butanediyl)bis[3-(phenylmethyl)- (9CI) (CA INDEX NAME)

L17 ANSWER 16 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)

ΙT

139527-60-9P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn. and reaction of, with triphenylphosphine)
139527-60-9 CAPLUS
3H-3a,6-Methano-2,1-benzisothiazole, 1-[[3-[1-{2-(bromomethy1)-6-methoxyphenyl]-2-(methoxymethoxy) ethy1)-8-methyl-2,4-dioxo-3,8-diazabicyclo[3.2.1]oct-6-y1]carbonyl]hexahydro-8,8-dimethyl-, 2,2-dioxide, [3aR-[1[1S*,3(R*),5R*,6R*],3a.alpha.,6.alpha.,7a.beta.]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

L17 ANSWER 17 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)

149771-40-4 CAPLUS 3,0-Diazabicyclo[3.2.1]octane, 8,8'-(1,5-dioxo-1,5-pentanediyl)bis[3-(phenylmethyl)- (9CI) (CA INDEX NAME)



149750-00-5P 150146-11-5P

RE: SPN (Synthetic preparation); PREP (Preparation) (prepn. and opioid receptor affinity of, analgesic activity in relation to) 149750-00-5 CAPLUS

3,8-Diazabicyclo(3.2.1)octane, 8,8'-(1,4-dioxo-1,4-butanediy1)bis[3-(phenylmethy1)-, dihydrochloride (9CI) (CA INDEX NAME)

L17 ANSWER 17 OF 39 CAPLUS COPYRIGHT 2003 ACS ON STN (Continued)

●2 HC1

150146-11-5 CAPLUS
3,8-Diazabicyclo[3.2.1]octane, 8,8'-(1,5-dioxo-1,5-pentanediyl)bis[3-(phenylmethyl)-, bis(4-methylbenzenesulfonate) (9CI) (CA INDEX NAME)

CRN 149771-40-4 CMF C31 H40 N4 02

CM 2

ANSWER 18 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN 55ION NUMBER: 1992:173839 CAPLUS 116:173839

116:173839
Asymmetric synthesis of (-)-quinocarcin
Garner, Philip; Ho, Wen Bin; Shin, Hunwoo
Dep. Chem., Case West. Reserve Univ., Cleveland, OH,
44106-7078, USA
Journal of the American Chemical Society (1992),
114(7), 2767-8
CODEN: JACSAT; ISSN: 0002-7863

īV

DOCUMENT TYPE: LANGUAGE: GI

Journal English

CH2PPh3Br

The first asym. synthesis of (-)-quinocarcin (I) an antitumor antibiotic isolated from Streptomyces melanovinaceus that inhibits DNA (and in some systems RNA) synthesis, is reported. Key steps in the synthesis include an auxiliary-controlled 1,3-dipolar cyclopaddn. reaction between inide II and acrylamide III and an unprecedented intramol. olefination of the imide IV to construct the 3,8-diazabicyclo[3,2.1]loctane (CD ring) and isoquinoline (B-ring) subunits of I in a stereo- and regiocontrolled manner. A comparison of the optical rotations of synthetic and natural I confirms that the abs. configuration of this substance is as depicted. 139527-95-66
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn. and bromination of)
139527-95-6 CAPLUS
3H-3a,6-Methano-2,1-benzisothiazole, hexahydro-1-[3-[2-(methoxymethoxy)-1-(2-methoxy-6-methyl-phenyl)tehyl]-8-methyl-2,4-dioxo-3,8-diazabicyclo[3,2.1]oct-6-yl]carbonyl]-8,8-diaethyl-, 2,2-dioxide, [3aR-1[115-3](8),5R*,6R*),3a.alpha.,6.alpha.,7a.beta.]]- (9CI) (CA INDEX CE

III

L17 ANSWER 17 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN CRN 104-15-4 CMF C7 H8 03 S

L17 ANSWER 18 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN NAME; (Continued)

Absolute stereochemistry. Rotation (-).

ΙT 139527-61-0P

139527-61-0P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
 (prepn. and cyclization of)
139527-61-0 CAPUS
Phosphonium, [[3-methoxy-2-[2-(methoxymethoxy)-1-[8-methyl-2, 4-dioxo-6-[(tetrahydro-8, 8-dimethyl-2, 2-dioxido-3H-3a, 6-methano-2, 1-benzisothiazol-1(4H)-yl] carbonyl]-3, 8-diazabicylo[3, 2.1] loct-3yl]ethyl]phemyl]methyl]triphemyl-, bromide, [3aR[1[15', 3(R'), 5R', 6R'], 3a.alpha., 6.alpha., 7a.beta.]]- (9CI) (CA INDEX
NAME)

139527-58-5P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

Page 19

L17 ANSWER 18 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN (Continued) (prepn. and etherification of)
RN 139527-58-5 CAPLUS
CN 3R-3a, 6-Methano-2, 1-benzisothiazole, hexahydro-1-[[3-[2-hydroxy-1-(2-methoxy-6-meth)phenyl)ethyl]-8-methyl-2, 4-dioxo-3,8diazabicyclo[3.2.1]oct-6-yl]carbonyl]-8,8-dimethyl-, 2,2-dioxide,
[3aR-[1[15*,3(R*),5R*,6R*],3a.alpha.,6.alpha.,7a.beta.]]- (GCI NDEX NAME)

Absolute stereochemistry. Rotation (+).

Absolute stereochemistry. Rotation (+).

L17 ANSWER 19 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN (CA INDEX NAME) (Continued)

ΙT 127381-65-1P 127470-56-8P

127381-65-19 127470-56-8P
RE: RCT (Reactant): SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (prepn. and ethanolysis of)
127381-65-1 CAPLUS
3H-3a,6-Methano-2,1-benzisothiazole, 1-{[3-[2-[[1,1-dimethylethyl]dimethylsilyl]oxy]-1-phenylethyl]-8-methyl-2,4-dioxo-3,8-diazabicyclo[3.2.1]ox16-6-yl]carbonyl]hexahydro-8,8-dimethyl-, 2,2-dioxide, [3aS-[1[1S*,3[R*),5R*,6R*],3a.alpha.,6.alpha.,7a.beta.]]- (9CI) (CA INDEX NAME)

127470-56-8 CAPLUS 3H-3a,6-Methano-2,1-benzisothiazole, hexahydro-8,8-dimethyl-1-[[8-methyl-2,4-dioxo-3-[shenylmethyl]-3,8-diazahicyclo[3.2.1]oct-6-yl]carbonyl]-,2,2-dioxide, [3a5-[1(18*,5R*,6R*),3a.alpha.,6.alpha.,7a.beta.]]- (9CI) (CA INDEX NAME)

ISWER 19 OF 39 ON NUMBER: IT NUMBER:

CAPLUS COPYRIGHT 2003 ACS on STN

1991:559499 CAPLUS

115:159499 Development of an asymmetric approach to the
3,8-diazabicyclo(3.2.1]octane moiety of quinocarcin
via intramolecular 1,3-dipolar cycloadditions of
photochemically generated azomethine ylides
Garner, Philipi Ho, Wen Bini Grandhee, Sunitha K.;
Youngs, Wiley J.; Kennedy, Vance O.
Dep. Chem., Case West. Reserve Univ., Cleveland, OH,
44106-7078, USA
Journal of Organic Chemistry (1991), 56(20), 5893-903
CODEN: JOCEAH; ISSN: 0022-3263
Journal
English
CASREACT 115:159499

AUTHOR(S): CORPORATE SOURCE:

SOURCE:

DOCUMENT TYPE: LANGUAGE: OTHER SOURCE(S): GI

Exploratory work culminating in an enantioselective approach to the DNA-reactive alkaloid quinocarcin (I) is detailed. The key step involves auxiliary-controlled dipolar cycloaddn. between photochem. generated azomethine ylides such as II (R = H, CH20SiMe2CMe3) and Oppolzer's chiral accyployl sultam (III) to assemble the 6-exo-substituted 3,8-diazabicyclo[3,2.1] octane core of I. The expected re-face selectivity of III was confirmed in one case by x-ray crystallog, anal. of endo-adduct. Removal (and recovery) of the chiral sultam auxiliary can be affected by titanium(IV)-mediated alcoholysis to give ester derivs. of the cycloadducts IV.
127381-61-79
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation) (prepn. and crystal structure of)
127381-61-7 CAPLUS
3H-3a,6-Methano-2,1-benzisothiazole, hexahydro-8,8-dinethyl-1-[[8-methyl-2,4-dioxo-3-(phenylmethyl)-3,8-diazabicyclo[3,2.1]oct-6-yl]carbonyl]-,2,2-dioxide, [3aS-[1(IR*,SR*,6R*),3a.alpha.,6.alpha.,7a.beta.]]- (SCI)

L17 ANSWER 19 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)

127381-62-8P 127381-63-9P 127381-64-0P 127420-42-2P 127470-57-9P 135457-93-1P 135401-27-5P 135557-56-1P 135557-57-2P 135558-14-4P 135558-15-5P

 $\label{eq:capacity} \begin{aligned} &127381-63-9 \quad \text{CAPLUS} \\ &3H-3a,6-\text{Methano-2,1-benzisothiazole,} \quad &1-\left[\left[3-\left[2-\left(\text{acetyloxy}\right)-1-\text{phenylethyl}\right]-8-\text{methyl-2,4-dioxo-3,8-diazabicyclo}\left[3.2.1\right]\text{oct-6-yl]carbonyl]} \\ &\text{heathyl-2,2-dioxide,} \quad &\left[3a5-\left[1\left[15^*,3\left[R^*\right),5R^*,6R^*\right],3a.alpha.,6.alpha.,7a.beta.\right]\right]- \\ &\text{(9CI)} \quad &\text{(CA INDEX NAME)} \end{aligned}$

L17 ANSWER 19 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)

12738]-64-0 CAPLUS
3H-3a,6-Methano-2,1-benzisothiazole, 1-[[3-[2-(acetyloxy)-1-phenylethyl]-8-methyl-2,4-dioxo-3,8-diazabicyclo[3,2.1]oct-6-y1]carbonyl]hexahydro-8,8-dimethyl-,2,2-dioxide, [3aR-[1[15*,3(5*),5R*,6R*],3a.alpha.,6.alpha.,7a.beta.]]-[9(D)] (CA INDEX NAME)

127420-42-2 CAPLUS
3,8-Diazabicyclo[3,2,1]octane-3-acetic acid, 8-methyl-2,4-dioxo-.alpha.-phenyl-6-(tetrahydro-8,8-dimethyl-2,2-dioxido-3H-3a,6-methano-2,1-benzisothiazol-1(4H)-yl)carbonyl]-, methyl ester, [3aS-[1[157,3(R*),5R*,6R*],3a.alpha.,6.alpha.,7a.beta.]]- (9CI) (CA INDEX NAME)

L17 ANSWER 19 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)

135481-27-5 CAPLUS
3,8-Diazabicyclo[3.2,1]octane-6-carboxylic acid, 8-methyl-2,4-dioxo-3-(phenylmethyl)-,1-[[(dicyclohexylamino)sulfonyl]methyl}-7,7-dimethylicyclo[2.2,1]hept-2-yl ester, [1R-[1.alpha.,5.alpha.,6.alpha.(1S*,2R*,4R*)]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

135557-56-1 CAPLUS 3,8-Diazabicyclo[3.2.1]octane-6-carboxylic acid, 8-methyl-2,4-dioxo-3-(phenylmethyl)-, 5-methyl-2-(1-methylethyl)cyclohexyl ester, [15-[1.alpha.,5.alpha.,6.beta.(1S*,2R*,55*)])- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

Page 21

L17 ANSWER 19 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)

127470-57-9 CAPLUS 3H-3a,6-Methano-2,1-benzisothiazole, 1-[[3-[2-[[(1,1-dinethylethyl)dimethylethyl]-1-phenylethyl]-8-methyl-2,4-dioxo-3,8-diazabicyclo[3.2.1]oct-6-yl]carbonyl]hexahydro-8,8-dimethyl-, 2,2-dioxide, [3ak-[1[15*,3(5*),5R*,6R*],3a.alpha.,6.alpha.,7a.beta.]]- (9CI) (CA INDEX NAME)

135457-93-1 CAPLUS 3,8-Diazabicyclo[3.2.1]octane-6-carboxylic acid, 8-methyl-2,4-dioxo-3-(phenylmethyl)-, 5-methyl-2-(1-methylethyl)cyclohexyl ester, [1R-{1.alpha.,5.alpha.,6.alpha.(1R*,2S*,5R*)]}- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L17 ANSWER 19 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)

135557-57-2 CAPLUS 3,8-Diazabicyclc[3.2.1]octane-6-carboxylic acid, 8-methyl-2,4-dioxo-3-(phenylmethyl)-,5-methyl-2-[1-methylethyl)cyclohexyl ester, [1R-[1.alpha.,5.alpha.,6.beta.(1R*,25*,5R*)]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

135558-14-4 CAPLUS

3/8-Diazabicyclo[3.2.1]octane-6-carboxylic acid, 8-methyl-2,4-dioxo-3-(phenylmethyl)-, 5-methyl-2-(1-methylethyl)-cyclohexyl ester, [15-[1.alpha,5.alpha,6.alpha,[15*,2R*,55*)]]- (9C1) (CA INDEX NAME)

Absolute stereochemistry.

135558-15-5 CAPLUS
3.8-Diazabicyclo[3.2.1]octane-6-carboxylic acid, 8-methyl-2,4-dioxo-3-(phenylmethyl)-, 1-[[(dicyclohexylamino)aulfonyl]methyl]-7,7-dimethylbicyclo[2.2.1]hept-2-yl ester, [ls-[1.alpha.,5.alpha.,6.alpha.(lR*,25*,48*)]]- (SCI) (CA INDEX NAME)

Absolute stereochemistry.

L17 ANSWER 19 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)

(Continued)

L17 ANSWER 20 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN (Continue RN 135366-01-7 CAPLUS CN 3,8-Diazabicyclo(3.2.1]octane-2,4-dione, 1-[[(1,1-dimethylathyl)dimethylathyl)dimethylathyl)dimethylathylyloxyl-6-ethenyl-5-hydroxy-3,8-bis[(4-methoxyphenyl)methyl)- (9CI) (CA INDEX NAME)

ANSWER 20 OF 39

CAPLUS COPYRIGHT 2003 ACS on STN
1991:536722 CAPLUS
115:136722 Novel ring contractions via [2,3] Wittig type
rearrangements: synthesis of 2-desoxy-2methylenebicyclomycin
Williams, Robert M.; Sabol, Mark R.; Kim, Hee Doo;
Kwast, Andrzej
Dep. Chem., Colorado State Univ., Fort Collins, CO,
80523, USA
Journal of the American Chemical Society (1991),
113(17), 6621-33
CODEN: JACSAT; ISSN: 0002-7863
Journal
English
CASREACT 115:136722 AUTHOR (S):

CORPORATE SOURCE:

SOURCE:

DOCUMENT TYPE: LANGUAGE: OTHER SOURCE(S): GI

Generation of bridgehead carbanions from bicyclo[5.2.2]- and bicyclo[7.2.2]-allyl ether-bridged piperazinediones results in novel ting contractions via unusual [2.3] Wittig and [3.3] Claisen rearrangements. The [2.3] Wittig rearrangement was applied to the oxadiazabicyclotridecanedione I (R = 4-MeOC6H4CH2) in the construction of 2-deoxy-2-methylenebicyclomycin (II).
135365-99-0P 135366-01-7P
RL: SPN (Synthetic preparation), PREP (Preparation)
(prepn. of)
(prepn. of)
3.8-Diazabicyclo[3.2.1]octane-2.4-dione, 6-ethenyl-5-hydroxy-3.8-bis[(4-methoxyphenyl)methyl]-1-methyl- (9CI) (CA INDEX NAME)

ANSWER 21 OF 39
ACCESSION NUMBER:
1990:424309 CAPLUS
113:24309
Stereoselective 1,3-dipolar cycloadditions of photochemically generated azomethine ylides to Oppolær's chiral acryloyl sultam. An asymmetric approach to quinocarcin
AUTHOR(S):
CORPORATE SOURCE:
DOCUMENT TYPE:
DOCUMENT TYPE:
LANGUAGE:

AUTHOR (S):
COEM: JOURNAL (S):
DOCUMENT TYPE:
JOURNAL (S):
DOCUMENT TYPE:
JOURNAL (S):
DOCUMENT TYPE:
LANGUAGE:
DOCUMENT TYPE:
JOURNAL (S):
DOCUMENT TYPE:
LANGUAGE:
LANGUAGE

DOCUMENT TYPE: LANGUAGE: GI

English

Photochem. generated azomethine ylides I [R = PhCH2, PhCH(CO2Me), PhCH(CH2OS:Me2CMe3)] underwent highly selective (ds >25:1) 1,3-dipolar cycloaddma. to the chiral acryloyl sultam (-)-II giving cycloaddust III corresponding to the substituted 3,8-diazabicyclo[3.2.1] octane moiety of quinocarcin with complete stereocontrol. The analogous reaction of with (+)-II provided the diastereocentrol. The analogous reaction of with the stereochem. outcome is under control of the chiral auxiliary. The sultam auxiliary was readily removed (12780-86-80) 12781-82-83-81 yrangle 2272-22 127420-56-89 127420-57-99 127420-42-29 127420-56-89 127420-57-99 NL: RCT (Reactant). SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (Synthetic preparation); Grepn. and alcoholysis of) 127381-62-8 CAPLUS 3,8-Diazabicyclo[3.2:1] octane-3-acetic acid, 8-methyl-2,4-dioxo-.alpha.-phenyl-6-((tetrabydro-8,8-dimethyl-2,2-dioxido-3H-3a,6-methano-2,1-benzisothiazol-1(4M)-yl)carbonyl-. methyl ester, [3as-[115*,3(s*),5x*,6x*],3.a.alpha.,6.alpha.,7a.beta.]]- (9CI) (CA INDEX NAME)

L17 ANSWER 21 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN

127381-65-1 CAPLUS
3H-3a,6-Methano-2,1-benzisothiazole, 1-[[3-{2-[[(1,1-dimethy]ethy])dimethy]ethy]dimethy]ethy]dimethylethy]dimethylethy]dimethylethy]dimethylethy]dimethylethy]dimethylethyldimethylethyldim

127420-42-2 CAPLUS
3,8-Diazabicyclo[3,2,1]octane-3-acetic acid, 8-methyl-2,4-dioxo-.alpha.-phenyl-6-[(tetrahydro-8,8-dimethyl-2,2-dioxido-3H-3a,6-methano-2,1-benzisothiazol-1(4H)-yl)carbonyl-, methyl ester, [3a5-[1[15*,3[R*),5R*,6R*),3a.alpha.,6.alpha.,7a.beta.]]- (9CI) (CA INDEX NAME)

L17 ANSWER 21 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)

ΙT

127381-61-7P 127381-63-9P 127381-64-0P
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
127381-61-7 CAPLUS
3H-3a,6-Nethano-2,1-benzisothiazole, hexahydro-8,8-dimethyl-1-[{8-methyl-2,4-dioxo-3-(phenylmethyl)-3,8-diazabicyclo[3.2.1]oct-6-yl]carbonyl]-,
2,2-dioxide, [3aS-[1(1R*,SR*,GR*),3a.alpha.,6.alpha.,7a.beta.]]- (9CI)
(CA INDEX NAME)

127381-63-9 CAPLUS 3H-3a,6-Hethano-2,1-benzisothiazole, 1-[[3-[2-(acetyloxy)-1-phenylethyl]-8-methyl-2,4-dioxo-3,8-diazabicyclo[3.2.1]oct-6-yl]carbonyl]hexahydro-8,8-dimethyl-, 2,2-dioxide, [3aS-[1[15*,3[R*),5R*,6R*],3a.alpha.,6.alpha.,7a.beta.])- (GCI NDEX NAME) L17 ANSWER 21 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN

 $\label{lem:condition} \begin{tabular}{ll} 127470-56-8 & CAPLUS & 3H-3a, 6-Methano-2, 1-benzisothiazole, hexahydro-8, 8-dimethyl-1-[\{8-methyl-2, 4-dioxo-3-\{phenylmethyl\}-7, 8-diazabicyclo[3.2.1]oct-6-yl]carbonyl}-, 2.2-dioxide, [3aS-[1[1S*, 5R*, 6R*), 3a.alpha., 6.alpha., 7a.beta.]]- (9CI) (CA INDEX NAME) & CAPLUS (CA INDEX NAME) & CAPLUS (CAPLUS (CAPLUS$

127470-57-9 CAPLUS
3H-3a,6-Methano-2,1-benzisothiazole, 1-{[3-[2-{[(1,1-dinethyl=chy])dimethyl=chy]dimethyl=chy]dimethyl=chy]dimethyl=chy]dimethyl=chy]dimethyl=chy]dimethyl=chy]dimethyl=chy]diazabicyclo[3.2.1]oct-6-y1]carbonyl]hexahydro-8,6-dimethyl-, 2,2-dioxide, [3ak-[[[15*,3[5*],5R*,6R*],3a.alpha.,6.alpha.,7a.beta.]}- (9CI) (CA INDEX NAME)

L17 ANSWER 21 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN

 $\label{eq:capprox} \begin{tabular}{ll} 127381-64-0 & CAPLUS \\ 3H-3a, 6-Methano-2, 1-benzisothiazole, $1-[[3-[2-(acetyloxy)-1-phenylethyl]-8-methyl-2, 4-dioxo-3, 8-diazabicyclo[3.2.1]oct-6-yl]carbonyl]hexahydro-8, $8-dimethyl-, 2, 2-dioxide ([3aR-[1[15^*,3[5^*),5R^*,6R^*],3a.alpha.,6.alpha.,7a.beta.]]- (9CI) & (CA INDEX NAME) \end{tabular}$

ANSWER 22 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN
SSION NUMBER:
BENT NUMBER:
110:57646
Antibacterial naphthyridine- and quinolonecarboxylic acid derivatives
NTOR(S):
Weber, Abrahams Bouzard, Daniels Essiz, Munirs Di Cesare, Pierre; Jacquet, Jean Pierre; Remuzon, Phillippe
ST ASSIGNEE(S):
Bristol-Myers Co., USA
PCT Int. Appl., 100 pp.
CODEN: PIXXD2
Patent
UAGE:
Bristol-Myers Co., USA
PCT Int. Appl., 100 pp.
CODEN: PIXXD2
Patent
UAGE:
UAGE:
CONUM. COUNT:
NT INFORMATION:

INVENTOR (S):

PATENT ASSIGNEE(S): SOURCE:

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PA	TENT	NO.		KI	ND	DATE	2			AP	PLI	CAT	ON	NO.	DATE	:
WO	8802	627		A:	1	1988	0421			WO	19	87-l	JS25	556	1987	1008
	W:	AU,	DK,	FI,	HU,	JP,	KR,	NO,	RO	١,	US					
	RW:	ΑT,	BE,	CH,	DE,	FR,	GB,	IT,	LU	Ι,	NL,	SE				
ZA	8707	471		A		1988	0525			ZA	19	B7-7	7471	1	1987	1005
DD	2663	54		A.	5	1989	0329			DD	19	37-3	3077	706	1987	1006
ÐD	2805	30		A!	5	1990	0711			DD	19	37-3	3279	89	1987	1006
AU	8781	581		A:	1	1988	0506			ΑU	19	37-E	158	31	1987	1008
AU	6114	00		B	2	1991	0613									
EP	2885	19		A:	1	1988	1102			EP	198	37-9	9071	178	1987	1008
	R:	ΑT,	BE,	CH,	DE,	FR,	GB,	IT,	LI	,	LU,	NL,	SE	3		
HU	5250	0		A.	2	1990	0728			HU	19	6-5	6		1987	1008
HU	2037	53		В		1991	0930									
DK	8803	555		А		1988	0823			DK	19	88-3	3555	5	1988	0628
NO	8803	077		A		1988	0822			NO	19	8-3	3077	7	1988	0708
FI	8803	894		Α		1988	0823			FΙ	19	88-3	3894	1	1988	0823
CS	2705	98		B	2	1990	0712			CS	191	8-7	7400)	1988	1110
AU	9176	326		A:	1	1991	0808			ΑU	199	91-7	7632	26	1991	0501
PRIORIT	Y APP	LN.	INFO.	. :					US	19	86-9	9167	752		198€	1008
									CS	19	87-	7295	5		1987	1008
OTHER S	URCE	(S):			MAR	PAT	110:	5764	6							

L17 ANSWER 22 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN (Continued) L17 ANSWER 22 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN

The title compds. I [X = F, Cl, Br, CF3, CCl3; Z = Q1, Q2, etc.; A, B, C, D, = H, (substituted) lower alkyl, NH2, OH, F, Cl, etc.; n = 0-3; Rl = CM-3, CM-2CH2Me, CPhMe2, etc.; R2 = H, Cl-4 alkyl, alkali and alk. earth metal ions; R3 = H, (substituted) Cl-6 alkyl, C3-6 cycloalkyl, etc.; Y = CH, CF, CCl, CBr, N], useful as antibacterials, were prepd. e.g., using amines II, III, IV, etc. Reaction of Et l-(1,1-dimethylethyl)-1,4-dihydro-6,7.8-trifluoro-4-oxo-3-quinolinecarboxylate with piperazine in MeCN, followed by sapon. and workup, gave 7-piperazinyl-1-(1,1-dimethylethyl)-1,4-dihydro-6,8-difluoro-4-oxo-3-quinolinecarboxylic acid (Y). V in vitro exhibited a MIC of 4 .mu.g/mL against Pseudomonas aeruginose. The corresponding MIC of norfloxacin was 0.5 .mu.g/mL. 118329-60-5
RL: RCT (Reactant); RACT (Reactant or reagent) (reaction of, in prepn. of naphthyridine and quinolone antibacterials) 118329-60-5 CAPUS
1.8-Naphthyridine-3-carboxylic acid, 1-(1,1-dimethylethyl)-6-fluoro-1,4-dihydro-4-oxo-7-(3-phenylmethyl)-3,8-diazabicyclo[3.2.1]oct-8-yl]-, ethyl ester (SCI) (CA INDEX NAME)

ANSWER 23 OF 39
AGRESSION NUMBER:
DOCUMENT NUMBER:
1925:488098 CAPLUS
103:88098
Synthesis and pharmacological activity of
3-aminopropiophenones and 3-(aminomethyl)camphors
Occelli, E. Fontanella, L. Diena, A., Schiatti, P.
Lab. Ric., Gruppo Lepetit S.p.A., Milan, Italy
Farmaco, Edizione Scientifica (1985), 40(2), 86-101
CODEN: FRFSAX; ISSN: 0430-0920
Journal

Journal Italian

DOCUMENT TYPE: LANGUAGE: GI

H

Z:CPhCH2CH2NR2.HCl [I, R = alkyl, (substituted) N-contg. heterocyclyl; Z = 0, (acyl) hydroxyimino] and the camphor derivs. II (R same as above) were prepd. and their CNS, analgesic, and antiinflammatory activities evaluated.
97669-75-5P

97669-73-5P
RL: SPN (Synthetic preparation), PREF (Preparation)
(prepn. and CNS activity of)
97669-75-5 CAPLUS
3,8-Diazabicyclo[3.2.1]octane-3-propanimine, N-[[[(4methoxyphenyl)amino]carbonyl]oxy]-8-(2-nitrobenzoyl)-.alpha.-phenyl(CA INDEX NAME)

97670-11-69
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(prepn. and pharmacol. activities of)
97670-11-6 CAPLUS
3,8-Diazabicyclo[3.2.1]octane-3-propanimine, N-[[[4-methoxyphenyl]amino[carbonyl]oxyl-8-(2-nitrobenzoyl)-.alpha.-phenyl-monohydrochloride (9CI) (CA INDEX NAME)

L17 ANSWER 23 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)

• HC1

ΙŢ 97669-87-9P 97669-99-3P

97669-97-97 97689-99-3P
RE: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
97669-87-9 CAPLUS
3,8-Diazabicyclo[3.2.1]octane, 8-(2-nitrobenzoyl)-3-(3-oxo-3-phenylpropyl)-, monohydrochloride (9CI) (CA INDEX NAME)

97669-99-3 CAPLUS
3,8-Diazabicyclo[3.2.1]octane-3-propanimine, N-hydroxy-8-(2-nitrobenzoy1)-.alpha.-phenyl-, ethanedioate (1:1) (salt) (9CI) (CA INDEX NAME)

CRN 97669-98-2 CMF C22 H24 N4 O4

CM 2

NSWER 24 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN ION NUMBER: 1984:423500 CAPLUS NUMBER: 101:23500 MEN NUMBER: 101:23500
Diazabicyclooctanes with anxiolytic and sedative activity
Pedrazzoli, Andrea: Crisafulli, Emilio Sanofi, Fr.
Fr. Demande, 14 pp.
CODEN: FRXXBL
Patent INVENTOR(S):
PATENT ASSIGNEE(S):
SOURCE: DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

FR 2531709 FR 2531709 PRIORITY APPLM. INFO.: OTHER SOURCE(S): GI PATENT NO. KIND DATE APPLICATION NO. DATE A1 19840217 B1 19850111 FR 1982-14127 19820813 FR 1982-14127 CASREACT 101:23500 19820813

NR1

3,8-Diazabicyclo[3.2.1]octanes I [one of R and R1 is 2-pyrimidinyl and the other is H, alkyl, Ph, tolyl, PhCH2, 3,4-(CH2O2)C6H3CH2, PhCH:CHCH2, alkanoyl, PhCO, 3,4-(CH2O2)C6H3CO, PhCH:CHCO), which were prepd., are useful as anxiolytics and sedatives (no data). I [R = 3,4-(CH2O2)C6H3CO, R1 = H] was treated with 2-chloropyrimidine and K2CO3 in DMF to give I [R = 3,4-(CH2O2)C6H3CO, R1 = 2-pyrimidinyl].
90478-34-58
RI: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) [Preparation]; RACT (Reactant or reagent) [Preparation]; RACT (Reactant); SPN (Synthetic preparation); RACT (Reactant); SPN (Synthetic preparation); RACT (Reactant); RACT (Rea ΑB

ΙT

90478-31-2P 90478-35-6P RL: RCT (Reactant) SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

Page 25

L17 ANSWER 23 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)

L17 ANSWER 24 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)

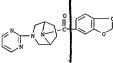
(prepn. and hydrogenolysis of)

RN 90478-31-2 CAPLUS

CN 3,8-Diazabicyclo[3,2.1]octane, 8-(1,3-benzodioxol-5-ylcarbonyl)-3(phenylmethyl)- (9CI) (CA INDEX NAME)

90478-35-6 CAPLUS 3.8-Diazabicycio[3.2.1]octane, 3-(2-methylphenyl)-8-(phenylmethyl)- (9CI) (CA INDEX NAME)

90478-39-0 90478-40-3 90478-41-4
90478-45-8 90478-51-6 90478-52-7
90478-53-8
RL: RCT (Reactant); RACT (Reactant or reagent)
(N-alkylation by, of diazabicyclooctane deriv.)
90478-39-0 CAPLUS
3,8-Diazabicyclo[3.2.1]octane, 8-(1,3-benzodioxol-5-ylcarbonyl)-3-(2-pyrimidinyl)- (9CI) (CA INDEX NAME)



90478-40-3 CAPLUS
3,8-Diazabicyclo{3.2.1}octane, 8-(1,3-benzodioxol-5-ylmethyl)-3-(2-pyrimidinyl)- (9CI) (CA INDEX NAME)

L17 ANSWER 24 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)

90478-41- CAPLUS
3,8-Diazabicyclo[3,2,1]octane, 8-(1,3-benzodioxol-5-ylmethyl)-3-(2-pyrimidinyl)-, dihydrochloride (9CI) (CA INDEX NAME)

●2 HC1

90478-45-8 CAPLUS 3,8-Diazabicyclo[3,2,1]octane, 3-(phenylmethyl)-8-(2-pyrimidinyl)- (9CI) (CA INDEX NAME)

ANSWER 25 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN
1979:72149 CAPLUS
DOCHENT NUMBER: 1979:72149 CAPLUS
90:72149 Tricyclic homologs of piperazine. III. Synthesis of
4-substituted hexahydro-1H-2,6-methanopyrolo[1,2-

AUTHOR(S): CORPORATE SOURCE: SOURCE:

a-substituted newanyoro-In-z,o-methanopyrolo(1,z-a)pyrazines Occelli, E.: Fontanella, L.: Testa, E. Lab. Ric., Lepetit S.p.A., Milan, Italy Farmaco, Edizione Scientifica (1978), 33(11), 875-84 CODEN: FRSXX: ISSN: 0430-0920

DOCUMENT TYPE: LANGUAGE: GI

Methanopyrrolopyrazine I (R = H, Rl = R2 = Me, X = Cl) was prepd. by treating II (R3 = H, R4 = CHZPh) with BrCHMeCOZEt, debenzylating II (R3 = CHMeCOZEt, R4 = CHZPh), methylating II (R3 = CHMeCOZEt, R4 = H), reducing II (R3 = CHMeCOZEt, R4 = Me), chlorinating the resulting alc., and cyclizing II (R3 = CHMeCHZCL, R4 = Me) with base. I (R = R1 = Me, R2 = CHZPh, X = CH = MeSO3; R = H, R1 = Ph, R2 = CHZPh, X = Cl) were similarly prepd. The latter 2 compds. qave 23 and 64 decrease resp. in gastrocnemic muscle contraction in rabbits at 2 mg/kg i.v.

HO-CH2-

●2 HC1

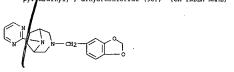
69099-94-1P esups-94-1P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
(prepn. and cyclization of)
69099-94-1 CAPLUS
3,8-Diazabicyclo(3.2.1)cotane, 8-(2-chloro-1-phenylethyl)-3-(phenylmethyl)-, dihydrochloride (9CI) (CA INDEX NAME)

L17 ANSWER 24 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN (Continued) CH2-Ph

90478-51-6 CAPLUS
3,8-Diazabicyclo[3.2.1]octane, 3-(1,3-benzodioxol-5-ylcarbonyl)-8-(2-pyrimidinyl)- (9CI) (CA INDEX NAME)

90478-52-7 CAPLUS 3,8-Diazabicyclo(3,2,1)octane, 3-(1,3-benzodioxol-5-ylmethyl)-8-(2-pyrimidinyl)-(9Cl) (CA INDEX NAME)

78-53-8 CAPLUS -Diazabicyclo[3.2.1]octane, 3-(1,3-benzodioxol-5-ylmethyl)-8-(2-faidinyl)-, dihydrochloride (9CI) (CA INDEX NAME)



L17 ANSWER 25 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)

●2 HC1

69099-91-8P SOUSY-31-SV (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (prepn. and redn. of) 69099-91-8 CAPLUS

09099-91-8 CAPLUS 3,8-Diazabicyclo[3,2.1]octane-8-acetic acid, .alpha.-phenyl-3-(phenylmethyl)-, methyl ester (9CI) (CA INDEX NAME)

CH2-Ph

69099-92-9P
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
69099-92-9 CAPUS
3,8-Diazabicyclo[3.2.1]octane-8-ethanol, .beta.-phenyl-3-(phenylmethyl)(9CI) (CA_NDEX_NAME) IT

CH2-Ph

DOCUMENT TYPE:
LANGIAGE:

DOCUMENT TYPE:
LANGIAGE:

ITalian

AB 2.6-Ethanopiperazines I [R = CH2CH:CMe2, Prco, Etco, Rl = CH2CH:CMe2, CH2CH2C(OR2)Me2 (R2 = H, acyl)) were prepd. by known methods and exhibited analysis activity.

AB 2.6-Ethanopiperazines I [R = CH2CH:CMe2, Prco, Etco, Rl = CH2CH:CMe2, CH2CH2C(OR2)Me2 (R2 = H, acyl)) were prepd. by known methods and exhibited analysis activity.

The control of the control of

ACCHENT NUMBER:

1572:539972 CAPLUS

Trilipera in Section NUMBER:

1572:539972 CAPLUS

Trilipera in Section NUMBER:

1572:539972 CAPLUS

Trilipera in Section NUMBER:

77:139972 CAPLUS

Triliperation of 3,8-diazabicyclo[3,2.1]octane, 2,4-diones, and 2,6-dimethylpiperazine with potential pharmacological activity

AUTHOR(S):

COMPORATE SOURCE:

Fontanella, L.: Occelli, E.: Testa, E.: Cignarella, G.

CONFORATE SOURCE:

Farmaco, Edizione Scientifica (1972), 27(9), 755-72

CODEN: FREPSAX, ISSN: 0430-0920

DOCUMENT TYPE:

JOURNAL

AB The diazabicyclooctanes I [R = NO, H, Ne, CH2, Ph, CH2CH:-CHPh, COEt, NH2, Rl = Me, COEt, CO2Et, NO, NH2, NHCOZt, NHCOC6H3(SO2NH2)Cl-3,4, the diazabicyclooctane-diones II (R = NO, H, Me, L, substituted amino) and some related piperazine derivs, were prepd. for testing for pharmacol. activity. I (R = NMCOEt, Rl = CH2CH:CHPh) had anticonvulsant, analgesic, and local anesthetic activity and I (R = COEt, R2 = Me, CH2CH:CHPh) also showed some activity. II (R = 3,4-(Me0)2C6H3CH2NH) had slight analgesic activity. The piperazines had considerably lower diuretic activity than Clopamide.

IT 38074-18-90 CAPLUS

RN 38074-18-9 CAPLUS

Benzamide, 3-(aminosulfonyl)-4-chloro-N-[3-(phenylmethyl)-3,8-diazabicyclo[3,2,1]oct-8-yl]- (9CI) (CA INDEX NAME)

HC1

ANSWER 29 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN
POESSION NUMBER:
1972:514359 CAPLUS
TITLE:
Synthesis of N,N'-dibenzylpyrrolidine-2,5-dicarboximide (3,8-diazabicyclo[3,2.1]Octane-2,4-dione)
AUTHOR(S):
Della, E. W.: Kendall, M.
Sch. Phys. Sci., Flinders Univ. South Australia,
Bedford Park, Australia
Australian Journal of Chemistry (1972), 25(8), 1927-8
COEDE: AJCHAS: ISSN: 0004-9425
Journal
LANGUAGE:
Bilish
GI For diagram(s), see printed CA Issue.
AB The title compd. (1) was pred. by cyclizing the pyrrolidine (II, R = H,
RI = PhCH2MH) (IIII), which was obtained by hydrolysis of the ester prepd.
from II (R = Et, R = CE) by the method of S. W. Blackman and R. J.
Baltzly [1961). Thus, III was treated with SO2C12 to give 75% I.HCl.
II 17740-41-99 37061-44-2P
RI: SFN (Synthetic preparation); PREP (Preparation)
(prepon. of)
RN 17740-41-9 CAPLUS
N 3,8-Diszabicyclo[3,2.1]octane-2,4-dione, 3,8-Dis(phenylmethyl)-,
monohydrochloride (9CI) (CA INDEX NAME)

• HC1

RN 37061-44-2 CAPLUS CN 3,8-Diazabicyclo[3.2.1]octane-2,4-dione, 3,8-Dia(phenylmethyl)- (9CI) (CA INDEX NAME)

ANSWER 30 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN

1972:85788 CAPLUS

76:85788 CAPLUS

76:85 AUTHOR(S): CORPORATE SOURCE: SOURCE:

DOCUMENT TYPE:

CODEN: FRPSAX; ISSN: 0430-0920

MENT TYPE: Journal

Italian

For diagram(s), see printed CA Issue.

The 3-substituted 3,6-diazabicyclo[3.2.1]octane-2,4-diones, I (R = H), are alkylated and acylated and treated with isocynantes to give alkylated compds. I (R = H, R! = Me) is treated with BuI to give I (R = Bu, R! = Me). Similarly prepd. are .apprx.30 addnl. I (R = alkyl, acyl, CONNEP, R! = H, Me, PhCH2, aryl). II is treated with NH3 to give I (R = Me, R! = H); and I (R = H, R! = p-tolyl) is prepd. by the distn. of III.

35101-50-9 35101-51-0 35101-52-1

RL: PROC (Process) LANGUAGE: GI For AB The

RL: PROC (Process)
(prepn. of)
3501-50-9 CAPLUS
3,8-Diazabicyclo[3,2.1]octane-2,4-dione, 8-benzoyl-3-(phenylmethyl)- (9CI)
(CA INDEX NAME)

35101-51-0 CAPLUS
3,8-01azabicyc10[3.2.1]octane-2,4-dione, 8-(phenylacety1)-3-(phenylmethy1)(9CI) (CA INDEX NAME)

35101-52-1 CAPLUS
3,8-Diazabicyclo[3,2.1]octane-2,4-dione, 8-(1-oxo-2-phenyl-2-propenyl)-3-(phenylmethyl)- (9CI) (CA INDEX NAME)

ANSWER 31 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN
AGYSSION NUMBER: 1972:3795 CAPLUS
TITLE: Synthesis of 2,5- and 2,6-bis(bromomethyl)-1,4diphenylpiperazines and their conversion into
2,5-diphenyl-2,5-diazabicyclo[2,2,2]octane
AUTHOR(S): Nelson, David A.; Worman, James J.; Keen, Brian
DOCUMENT SOURCE: Dep. Chem., Univ. Wyoming, Laramie, WY, USA
Journal of Organic Chemistry (1971), 36(22), 3361-5
COBEN: JOCEAHJ ISSN: 0022-3263
DOCUMENT TYPE: LANGUAGE: English
GI For diagram(s), see printed CA Issue.
AB Treatment of cis-1,5-diphenyl-3,7 - dihydroxyoctahydro - 1,5 - diazocine
with PBr3 yielded a mixt. of cis-2,6-bis(bromomethyl)-1,4-diphenylpiperazine (I) and cis-2,5-bis(bromomethyl)-1,4-diphenylpiperazine (II) and twee synthesized from cis-2,5- and cis-2,6-dimethylpiperazines.
Both I and II were synthesized from cis-2,5- and cis-2,6-dimethylpiperazines.
Both I and II on treatment with Mg in THF were converted to
2,5-diphenyl-2,5-diazabicyclo[2,2,2]-octane (V). The interconversion of I and II is discussed.

II 17140-42-0 CAPLUS
NAME)

CN 3,8-Diazabicyclo[3,2,1]octane, 3,8-bis(phenylmethyl)- (9CI) (CA INDEX
NAME)

Ph-CH2 CH2-Ph L17 ANSWER 30 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)

35142-72-4P

Shiet-Z-aw (Synthetic preparation), PREP (Preparation) (prepn. of)
35142-72-4 CAPLUS
3,8-Diazabicyclo(3.2.1)octane-2,4-dione, 8-benzoyl-

,8-Diazabicyclo(3.2.1)octane-2,4-dione, 8-benzoyl-3-phenyl- (9CI) (CA

ANSWER 32 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN ACCESSION NUMBER: 1970:78780 CAPLUS COPYRIGHT 2003 ACS on STN 1970:78780 CAPLUS 72:78780 Photoinduced 1,3-dipolar cyclos 72:78780
Photoinduced 1,3-dipolar cycloaddition reaction of aziridinedicarboximide olda, Sadao: Ohki, Elji Cent. Res. Lab., Sankyo Co., Ltd., Tokyo, Japan Chemical & Pharmaceutical Bulletin (1969), 17(12), 2461-74

AUTHOR(S): CORPORATE SOURCE: SOURCE:

DOCUMENT TYPE: LANGUAGE:

CODEN: CPBTAL; ISSN: 0009-2363

WHENT TYPE: Journal

WHAGE: English

For diagram(s), see printed CA Issue.

Cycloaddn. of Meo2CC.tplbond.CCO2Me to N-(p-methoxyphenyl)-1-benzyl-2,3azziridinedicarboximide was not effected thermally, but under irradn. it
gave 3 1:1-cycloadducts and a 1:2-cycloadduct I. The structural detn. of
the cycloadducts was via their spectral dataand chem. degradations.

Mutual photochem. transformation of the cycloadducts was verified.

EX.SPN (Supplying and Company)

25435-24-9P
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
25435-24-9 CAPLUS
3.8-Diazabicyclo[3.2.1]octane-6,7-dicarboxylic acid, 8-benzyl-6-p-dicxan-2-yl-3-(p-methoxyphenyl)-2,4-dicxo-, dimethyl ester (8CI) (CA INDEX NAME)

D. Answer 33 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN
ADCESSION NUMBER:

1969:115125 CAPLUS
TO:115125
AUTHOR(S):

AUTHOR(S):

CORPORATE SOURCE:

SURCE:

OF 39 CAPLUS COPYRIGHT 2003 ACS on STN

LER: 1966:49651 CAPLUS

R: 68:49651

3,8-Disubstituted-3,8-diazabicyclo[3.2.1]octanes
Kirchner, Frederick K.

E(S): Sterling Drug Inc.
U.S., 8 pp.
CODEN: USXXAM
Parent SSION NUMBER: PATENT ASSIGNEE(S):

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION: English

PATENT NO. KIND DATE APPLICATION NO. DATE 5 19670627

PATENT NO. KIND DATE APPLICATION NO. DATE

US 3328396 | 19670627 US 19611109

For diagram(s), see printed CA Issue.
Thus, 0.1 mole diethyl 1-methyl-2,5-pyrolidinedicarboxylate (II) was heated to 150.degree. and 0.1 mole benzylamine added during 15 min. After increasing the temp. to 180.degree., ECOH, began to distil. The temp. Avera increased to 280.degree. during 2 hrs. and 7.2 cc. ECOH was collected to give 3-benzyl-2,4-dioxo-3-methyl-3,8-diazabicyclo[3.2.1]octate, m. 100.0-4.4.degree. (hexane) (procedure A). The picrate m. 175-8.degree. (decompn.) (ELCOH). LiAIHA redn. of the dioxo compd. in Et20 gave I (R - PhCHZ, RI - Me) (111), b9.2 84-94.degree., n2SD 1.5368 (procedure B). Refluxing 2.0 g. III in Et20 with excess MeI 1 hr. gave the methiodide, m. 245.0-8.2.degree. (ELOH) (procedure C). III (10 g.) in 400 cc. ECOH was acidified with concel. HCl and hydrogenated over Pd/C 6 hrs. at 23.degree. and 45 psi. to give I.2 HCl (R - H, RI - Me) (IV), m. 325.degree. (decompn.) (procedure D). By these procedures were prepd. 3-(3,4-dichlorobenzyl)-8-methyl-2,4-dioxo-3,8-diazabicyclo[3.2.1]octane, m. 103.6-8.degree. (abs. ECOH), from II and 3,4-dichlorobenzyl-amine). LECH (R - 3,4-Cl2CGH3CH2, RI - Me), m. 216.4-20.8.degree. and its ethobromides 3-(4-dimethylaminobenzyl)-2,4-dioxo-8-methyl-3,8-diazabicyclo[3.2.1]octane (the di-HCl salt m. 236.8.degree. (decompn.) (dry MeON!) I (R - p-HcNCGH4CH2, RI - Me), m. 234.0-0.7.2.degree. (abs. ECOH), 1. 2HCl (R - P-CLCGHCH2R), RI - Me), m. 234.0-0.7.2.degree. (abs. ECOH); chloride: 2,4-dioxo-8-methyl-3-9-hensethyl-3,8-diazabicyclo[3.2.1]octane HCl salt m. 236.8.degree. (decompn.) and its methosulfate: 3-(3,4-dioxo-8-methyl-3-8-diazabicyclo[3.2.1]octane HCl salt, m. 226.degree. (decompn.) and its methosulfate: 3-(3,4-dioxo-8-methyl-3-8-diazabicyclo[3.2.1]octane HCl salt, m. 228.degree. (decompn.) and its methosulfate: 3-(3,4-dioxo-8-methyl-3-8-diazabicyclo[3.2.1]octane HCl salt, m. 228.degree. (decompn.) and its methosulfate: 3-(3,4-dioxo-8-methyl-3-8-diazabicyclo[3.2.1]octane HC

L17 ANSWER 33 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN

22315-35-1 CAPLUS
3,8-Diazabicyclo[3.2.1]octan-2-one, 8-(p-phenylbenzyl)- (8CI) (CA INDEX NAME)

22315-36-2 CAPLUS
3-Aza-8-azoniabicyclo[3.2.1]octane, 3,8-dimethyl-2-oxo-8-(p-phenylbenzyl)-, iodide (8C1) (CA INDEX NAME)

L17 ANSWER 34 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN (Continued) give 3-(3-acetoxy-2-phenylpropionyl)-8-methyl-3,8-diazabicyclo[3.2.1]octame hydrochloride (procedure F). To a soln. contg. 0.014 mole of the above salt in 50 cc. abs. MeOH, 4 cc. 4N aq. HCl was added and the soln. kept at room temp. several days. Addn. of a large amt. of abs. EECO caused the pptn. of a white gum which solidified in abs. EECOH to give 3-(3-hydroxy-2-phenylpropionyl)-8-methyl-3,8-diazabicyclo[3.2.1]octame hydrochloride, n. 195.3-20.3. degree. (abs. EECOH to give 3-(3-hydroxy-2-phenylpropionyl)-8-methyl-3,8-diazabicyclo[3.2.1]octame hydrochloride, n. 195.3-20.3. degree. (abs. EECOH to give 1-HCl R) et activity of atropine sulfate in the mouse after s.c. injection. The LDSO in mice was 160 st-. 12 mg./Kg.i.v. A soln. of 0.04 mole IV in 100 cc. dry EECO was added coutiously with cooling to 15 cc. 1004 HCl (R = EECOL, N = Memorylochloride in 100 cc. dry EECO to give 1-HCl (R = EECOL, N = Memorylochloride in 100 cc. dry EECO to give 1-HCl (R = EECOL, N = Memorylochloride in 100 cc. dry EECO to give 1-HCl (R = EECOL, N = Memorylochloride in 100 cc. dry EECO was added cautiously with cooling to 15 cc. 1004 HCO2H and 0.04 mole 374 HCDO. The mixt. was heated at 95.degree. overnight, 9 cc. concd. HCl added, and the mixt. was heated at 95.degree. overnight, 9 cc. concd. HCl added, and the mixt. was heated at 95.degree. overnight, 9 cc. concd. HCl added, and the mixt. heated 3 hrs. at 95.degree. overnight, 9 cc. concd. HCl added, and the mixt. was reliated with 0.04 mole VII n. NaOH to give 3-(.aipha.-hydroxyphenylacetyl)-8-methyl-3,8-databicyclo[3.2.1] octame hydrochloride, n. 226.4-7.8 degree. Using procedure F, 0.03 mole IV was treated with 0.03 mole BEC1 to give I.HCl (R = EZ, R = Me), m. 234-06.degree. (decompn.) grocedure F, 0.04 mole VII (R = EZ, R = Me), m. 239-40.6.degree. (decompn.) grocedure F, 0.04 mole VII (R = EZ, R = Me), m. 239-40.6.degree. (decompn.) (procedure F). IN (R (R = EZ, R = Me), m. 239-40.6.degree. (decompn.) (procedu

L17 ANSWER 34 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)
Ethereal HC1 was added to the dried Et20 ext. to give I.2HC1 (R

-BSOCH2CH2, R1 = Me), m. 197.2-209.6.degree. (decompn.). This compd. had
1.1 times the local anesthetic activity of procaine in guinea pigs. The
i.v. L050 in mice was 28 .+- 1.6 mg./kg. Using procedure E, 1.0 mole
3-diethylaminopropylamine was treated with 0.5 mole V in 700 cc. C6H6 to
give I-(3-diethylaminopropyl)-2,5-6-dicarbethoxypyrrolidine (IX), b0.5
135-40.degree., n25D 1.4588. Using procedure A, 0.1 mole IX was treated
with 0.1 mole benzylamine to give 3-benzyl-8-(3-diethylaminopropyl)-2,4dioxo-3,8-diazabicyclo[3.2.1]octane as the HC1 salt, m.
183.0-194.8.degree. (abs. EtOH). The salt had twice the local anesthetic
activity of procaine in guinea pigs. The i.v. LD50 in mice was 31 mg./kg.
Using procedure B, the free base corresponding to the above salt was
reduced to give I (R - PhCH2, R1 = Et2N(CH2)3]. Using procedure A, 6.5 g.
diethylaminopropylamine was treated with 0.05 mole II to give
3-(3-diethylaminopropyl)-8-methyl-2,4-dioxo-3,8-diazabicyclo[3.2.1]octane
hydrochloride, m. 209.2-12.2.degree. (abs. EtOH). Using procedure B, the
above salt was reduced to give I [R - Et2N(CH2)3, R1 - Me], b3.5
126-30.degree., n25D 1.4782; tri+HC1 salt m. 169-71.degree. Using
procedure G, 0.01 mole of the above base was treated with 15 cc. Mel and
0.017 mole XCOG in 100 cc. abs. Med to give 3-(3-diethylaminopropyl)-8methyl-3,8-diazabicyclo[3.2.1]octane bismethicdide, m. 263.4-64.degree.
(decompn.). Using procedure A, 0.1 mole II was treated with 0.1 mole
diethylaminoethylamine to give 3-(2-diethylaminoethyl)-8-methyl-2,4-dioxo3,8-diazabicyclo[3.2.1]octane dihydrochloride, m. 221.0-2.8.degree.
(decompn.). Using procedure B, the free base corresponding to the above
di+HC1 salt was reduced to give I.1MC1 (R = EtXNHZCH2), R1 = Me), m.
225.6-33.2.degree. (decompn.). Using procedure B, the above free base was
reduced to give I (R = EtXN(CH2)4, R1 = Me), using procedure A, 11.5 g.
II was trea

L17 ANSWER 34 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)

L17 ANSWER 34 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)

Ph-CH2 NN CH2-Ph

O HC1

RN 17740 42-0 CAPLUS
CN 3,8-Djarabicyclo[3.2.1]octane, 3,8-bis(phenylmethyl)- (9CI) (CA INDEX NAME)

Ph-CH2 NN CH2-Ph

RN 17783-47-0 CAPLUS
CN 2,5-Pyrrolidinedicarboximide, N-benzyl-1-methyl-, picrate (8CI) (CA INDEX NAME)

CM 1

CRN 17783-46-9
CMF C14 H16 N2 02

CM 2

CRN 88-89-1
CMF C6 H3 N3 07

LIL ANSWER 35 OF 39
ACCESSION NUMBER:
DOCUMENT NUMBER:
ORIGINAL REFERENCE NO:
INVENTOR(S):
SOURCE:
DOCUMENT TYPE:
LANGUAGE:
PATENT INFORMATION:
PATENT INFORMATION:

LIL ANSWER 35 OF 39
164:425460 CAPLUS
61:25460
61:25460
61:4374a-g
10izabloyclooctane derivatives
Lepetit, S.p.A.
12 pp.
Patent
Unavailable

PATENT NO. KIND DATE APPLICATION NO. DATE

BE 633541 19631104 BE
FR 1365537 FR
GB 988526 GB
FRIORITY APPLIN, INFO: GB 1962061

FR 1365537

FR 3898526

GB 19620615

Fr diagram(s), see printed CA Issue.

Improved routes to certain 3- and 8-substituted derivs. of I are described. Thus, a mixt. of 6.7 g. 3-benzyl-3,8-diazabicyclo(3.2.1)octane (II), and 12.8 g. (EtCO)20 was heated 1.5 hrs. at 100.degree., cooled, acidified with HCl, extd. with Et20 (discarded), the aq. layer alkalized at -5.degree., and the sept. oil extd. into Et20. Fractionation of the ext. gave 7.4 g. 3-benzyl-8-propionyl-3,8-diazabicyclo(3.2.1)octane (III), bl 174.degree. bl. 0.4 133-7.degree. III was hydrogenated in 60 cc. EtCH with 3 g. 101 Fd-C at 60.degree. and 50 atm. to give 4.3 g. 8-propionyl-3,8-diazabicyclo(3.2.1)octane (IV), bl. 121.degree.. A mixt. of 0.05 mole IV in 100 cc. Me2CO and 0.6 mole X2CO3 was stirred and treated with 0.06 mole Phth:fcHCCCl in 40 cc. Me2CO, refluxed 7 hrs., concd., the residue dissolved in 104 HCl and the soln. extd. with Bt2O (discarded). The aq. layer was alkalized, the sept. hase extd. into Et2O, and the ext. fractionated, to give 3-cinnamyl-8-propionyl-3,8-diazabicyclo(3.2.1)octane (V), bo. 2 170.degree. The following 8-propionyl derivs. were similarly prepd. (3-substituent and b.p./mm. or m.p. given): Et 85-90.degree./0.4; iso-Pr 100.degree./0.2; bu 105.degree./0.2; phenylethyl 150.degree./0.3; cyclopentylmethyl 133-8.degree./0.3; cyclopentylmethyl 150.degree./0.3; cyclopentylmethyl 130-8.degree./0.3; cyclopentylmethyl 150.degree./0.4; phenylpropyl 175.degree./0.4; phenylpropyl 175.degree./0.4 has treated dropvise at 5-degree. with 1.92 g. BzCl, the mixt. stirred 3 hrs. at room temp., dild. with H2O, and extd. with Et2O. The ext. left 2.9 g. of viscous oil, which was treated with alc. HCl to give 3 g. HCl salt of the 3-benzyl-8-benzoyl deriv. of I, m. 219-21.degree. (StDO). Similarly prepd. were the 3-benzyl-8-benzoyl-1,8-diazabicyclo(3.2.1) octane (VI), bo. 5 degree. and distd. to yield 0.8 g. VII, bo. 2 128-30.degree., m.p. and mixed m.p. 30-40.degree. (subhimes); (2) 1 g. IV was dissolved in 5 cc. 2N NoH control of H2O. Shel

ANSWER 35 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN (Continued) 0.58 g. oil with properties as above. To methylate VII, a soln. of 0.84 g. in 0.7 cc. HCO2H and 0.79 g. 384 CH2O was refluwed 15 hrs. cooled, treated with 1 cc. HCl, concd. in vacuo, alkalized, extd. with Et2O, and the ext. fractionated to give 0.54 g. 3-propionyl-8-methyl deriv. of I, bl 110-12.degree. VII was benzylated as described for IV to V to give the 3-propionyl-8-benzyl deriv. of I, bl 0.2 155.degree. VI was converted into its 3-Bz isomer [m. 122-3.degree. (Et2O)] by the 3 methods described for IV to VII.

IV to VII. 100105-97-3, Acetophenone, 2-(3-benzyl-3,8-diazabicyclo[3.2.1]oct-8-v1)-

(prepn. of) (prepn. of) 100105-97-3 CAPLUS (prepn. of) INDEX NAME)

ANSWER 36 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN (Continued) di-HCl salt m. 218-20.degree.; Ph, H, b0.2 114.degree.; benzyl, H, b. 95-7.degree.; di-HCl salt m. 145-8.degree.; dipicrate m. 232-5.degree.; H, H, b. 173-5.degree.; di-HCl salt m. 314-15.degree.; dipicrate m. 232-5.degree.; H, H, b. 173-5.degree.; di-HCl salt m. 314-15.degree.; dipicrate m. 224-50.degree.. These compds. are pharmacologically active as diuretic, hypotensive, antihistaminic, tranquillizing, and ganglionic blocking agents.

96000-95-2, 3,8-Diazabicyclo[3.2.1]octane-8-carboxylic acid, 3-benzyl-2,4-dioxo-, benzyl ester (prepn. of)

96000-95-2 CAPLUS
3,8-Diazabicyclo[3.2.1]octane-8-carboxylic acid, 3-benzyl-2,4-dioxo-, benzyl ester (6CI, 7CI) (CA INDEX NAME)

ANSWER 36 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN SION NUMBER: 1964:23448 CAPLUS ACCESSION NUMBER: DOCUMENT NUMBER: ORIGINAL REFERENCE NO.: 1964:23448 CAPLUS 60:23448 60:4161g-h,4162a-d 3,8-Diazabicyclo[3.2.1]octanes Cignarella, Giorgio Lepetit S.p.A. 4 pp. Patent TITLE: INVENTOR(S): PATENT ASSIGNEE (S): SOURCE: DOCUMENT TYPE: LANGUAGE: Unavailable FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO. KIND KIND DATE APPLICATION NO. DATE

PATENT NO. KIND DATE

APPLICATION NO. DATE

GB 937184

19600217

For diagram(s), see printed CA Issue.

The title compds. are represented by (I) wherein R is H or an alkyl (C1-8), an aryl, or an arylalkyl group, and X is H or carbobenzyloxy. The process used consists in adding to the internal anhydride of an AN-substituted pyrrolidine-2,5-dicarboxylic acid an excess of an amine RNH2 and refluxing the obtained crude monamine with Ac20. Thus, a soln. of 60 g. 2,5-dicarbethoxy-N-benzylpyrrolidine was hydrogenated at 40.degree./20 atm. in abs. EtcH over 108 PdC to give 38 g. 2,5-dicarbethoxypyrrolidine (II), b0.3 95-6.degree. A suspension of 200 g. II in 8 l. H20 was refluxed for 25-30 hrs. to give 110 g. pyrrolidine-2,5-dicarboxylic acid (III), m. 260-1.degree. To a soln. of 67 g. III in 420 ml. 2N NaOH soln. cooled to 8-10.degree. To a soln. of 67 g. III in 420 ml. 2N NaOH soln. was added with vigorous stirring during 30 min. After 2 hrs. stirring, the soln. yielded 86.5 g. N-carbobenzyloxy-pyrrolidine-2,5-dicarboxylic acid (IV), m. 125-7.degree. A soln. of 79 g. IV in 360 ml. Ac20 was refluxed I hr. to give 58.1 g. IV anhydride (V), m. 166-8.degree. To a soln. of 27.5 g. V in 300 ml. anhyd. C6H6 a soln. of 19 g. NN 3in 50 ml. C6H6 was added with cooling. The mixt. was refluxed for 30 min., the solvent removed, and the resulting monamide refluxed with Ac20 l hr. at 130-40.degree. under 1 atm. pressure to give 18 g. 8-carbobenzyloxy-3,8-diazabicyclo(3.2.1]octane-2,4-dione (I, X = PhCH202C, R = H) (VI), m. 125.degree. Similarly prepd. I (X = PhCH202C) analogs were (R and b.p. given): Me, b0.3 170-2.degree.; Bu, b0.3 192-4.degree.. henzyl. (C02CH2Ph, 83-4.degree.; Me, H, 105-7.degree.). A mixt. of 21.5 g. II and 11.8 g. PhCH2NH2 in 50 ml. dry Me2C6H4 was refluxed for 24 hrs. to give 20.2 g. 2-carbethoxy-5-benzylcarbamyylpyrrolidine (VI), b0.3 178-80.degree. Mil warming of 20.2 g. VII gave 16.5 g.
3-benzyl-1, 78-diazacyclo(3.2.1]octane-2, 4-dione, b0.2 150-2.degree. A soln. of 27.4 g. VI was added dropwise, with stir

ANSWER 37 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN ACCESSION NUMBER: 1964:23447 CAPLUS CONCENT NUMBER: 60:4161g-h,4162a-d 3.8-Diazabicyclo[3.2.1]octanes TITLE: 3,8-Diazabicyclo[3.2.1]octanes Cignarella, Giorgio Lepetit S.p.A. 4 np. SOURCE: 4
DOCUMENT TYPE: P.
LANGUAGE: U.
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION: 4 pp. Patent Unavailable

PATENT NO. GB 937183 KIND DATE APPLICATION NO. DATE 19630918 GB 19600217 DE 1200316 US 3221015

DE 1200316

DE 1200316

DE 1200316

DE 1200316

DE 1200316

DE 507 diagram(s), see printed CA Issue.

The title compds. are represented by (I) wherein R is H or an alkyl (C1-8), an aryl, or an arylalkyl group, and X is H or carbobenzyloxy. The process used consists in adding to the internal anhydride of an Mn-substituted pyrrolidine-2,5-dicarboxylic acid an excess of an amine RNH2 and refluxing the obtained crude monamine with Ac20. Thus, a soln. of 60 · g. 2,5-dicarbethoxy-N-benzylpyrrolidine was hydrogenated at 40.degree./20 atm. in abs. Etch over 101 Pd-C to give 3g · 2,5-dicarbethoxypyrrolidine (II), b0.3 95-6.degree. A suspension of 200 g. II in 8 l. H20 was refluxed for 25-30 hrs. to give 110 g. pyrrolidine-2,5-dicarboxylic acid (III), m. 260-1.degree. To a soln. of 67 g. III in 8 l. H20 was refluxed for 25-30 hrs. to give 110 g. pyrrolidine-2,5-dicarboxylic acid (III), m. 260-1.degree. To a soln. of 67 g. III in 420 ml. 2N NaOH soln. was added with vigorous stirring during 30 min. After 2 hrs. stirring, the soln. yielded 86.5 g. N-carbobenzylox-pyrrolidine-2,5-dicarboxylic acid (IV), m. 125-7.degree. A soln. of 7g g. IV in 360 ml. Ac20 was refluxed 1 hr. to give 58.1 g. IV anhydride (V), m. 166-8.degree. To a soln. of 27.5 g. V in 300 ml. anhyd. C6H6 a soln. of 1.9 g. NN3 in 50 ml. C6H6 was added with cooling. The mixt. was refluxed for 30 min., the solvent removed, and the resulting monamide refluxed with Ac20 hr. at 130-40.degree. under 1 atm. pressure to give 18 g. 8-carbobenzyloxy-3,8-diazabicyclo(3.2.1)cotane-2,4-dione (I, X = phcH202C, R = H) (VI), m. 125-degree. Similarly prepd. I (X = phcH202C) analogs were (R and b.p. given): Me, b0.3 170-2.degree.; Bu, b0.3 192-4.degree.; benzyl, H, 78.degree (b0.2 150-2.degree.) A mixt. of 21.5 g. II and 11.8 g. phcH2NH2 in 50 ml. dry M2C6H4 was refluxed for 24 hrs. to give 20.2 g. 2-carbethoxy-5-benzylcarbamoylpyriprolidine (VII), b0. 3.3-benzyl-3,8-diazacyclo(3.2.1)cotane-2,4-dione, b0.2 150-2.degree. A soln. of 27.4 g. VI was added dropwine, with stirring,

ANSWER 37 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN (Continued) H, b. 173-5.degree.; di-HCl salt m. 314-15.degree.; dipicrate m. 248-50.degree. These compds. are pharmacologically active as diuretic, hypotensive, entihistaminic, tranquillizing, and ganglionic blocking

agents.
96000-95-2, 3,8-Diazabicyclo[3.2.1]octane-8-carboxylic acid,
3-benzyl-2,4-dioxo-, benzyl ester
(prepn. of)
96000-95-2 CAPLUS
3,8-Diazabicyclo[3.2.1]octane-8-carboxylic acid, 3-benzyl-2,4-dioxo-,
benzyl ester (6CI, 7CI) (CA INDEX NAME)

ANSWER 38 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)
233.degree.) (7 g.) in 50 cc. MeOH hydrogenated over 6 g. 10% Pd-C in 1.5
min. gave 93% 8-ethyl-3,8-diazabicyclo-[3.2.1]octane, m. 275.degree.
(decompn.) (MeOH) as the di-Hcl salt (XII) XII (4.3 g.) in 25 cc. Ac2O
and 3 g. X2CO3 heated, 12 cc. Ac2O added, refluxing continued, 5 g. X2CO3
added, the mixt. refluxed a few more min., cooled, MeOH added, the mixt.
evapd., the residue dild. with H2O, concd. KOH added, and the soln. extd.
with C6H6 gave 0.2 g. oil. The ext. was dissolved in 20 cc. hexane and
refrigerated, no solid formed, and hence the material was converted to 67%
RCI salt of 3-acetyl-8-ethyl-3,8-diazabicyclo[3.2.1]-octane, m.
229-30.degree.
17740-41-9, 2,5-Pyrrolidinedicarboximide, N,1-dibenzyl-,
hydrochloride 17740-42-0, 3,8-Diazabicyclo[3.2.1]octane,
1-benzoyl-8-phenyl-102163-86-0, 3,8-Diazabicyclo[3.2.1]octane,
3-benzyl-8-phenyl-102163-86-0, 3,8-Diazabicyclo[3.2.1]octane,
3-benzyl-8-phenyl-102163-86-0, 3,8-Diazabicyclo[3.2.1]octane,
3-benzyl-8-phenyl-102163-86-0, 3,8-Diazabicyclo[3.2.1]octane,
3-benzyl-9-phenyl-10ctane, 3,8-Diazabicyclo[3.2.1]octane,
(prepn. of)
17740-41-9 CAPLUS
3,8-Diazabicyclo[3.2.1]octane-2,4-dione, 3,8-Diazabicyclo[3.2.1]octane)
17740-41-9 CAPLUS
3,8-Diazabicyclo[3.2.1]octane-2,4-dione, 3,8-Diazabicycloride(phenylmethyl)-,
monohydrochloride (SCI) (CA INNEX NAME)

3,8-Dizzabicyclo[3.2.1]octane-2,4-dione, 3,8-bis(phenylmethyl)-, monohydrochloride (9CI) (CA INDEX NAME)

17740-42-0 CAPLUS 3,8-Diazabicyclo[3.2.1]octane, 3,8-bis(phenylmethyl)- (9CI) (CA INDEX NAME)

5101-50-9 CAPLUS 8-Diazabicyclo[3.2.1]octane-2,4-dione, 8-benzoyl-3-(phenylmethyl)- (9CI) (CA INDEX NAME)

thy answer 39 of 39 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 1961:144227 CAPLUS
DOCMENT NUMBER: 55:144227
ACTION OF STATE OF STA

L17 ANSWER 38 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)

102080-93-3 CAPLUS 3,8-Diazabicyclo[3.2.1]octane, 3-benzoyl-8-phenyl- (6CI) (CA INDEX NAME)

102163-86-0 CAPLUS 3,8-Diazabicyclo[3.2.1]octane, 3-benzyl-8-phenyl- (6CI) (CA INDEX NAME)

CH2-Ph

103046-68-0 CAPLUS 3,8-Diazabicyclo[3.2.1]octane, 3-benzyl-8-phenyl-, picrate (6CI) (CA INDEX NAME)

CRN 102163-86-0 CMF C19 H22 N2

CH2-Ph

CM 2

CRN 88-89-1 CMF C6 H3 N3 O7

L17 ANSWER 38 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)

110553-68-9 CAPLUS 2,5-Pyrrolidinedicarboximide, N-benzyl-1-phenyl- (6CI) (CA INDEX NAME)

111663-65-1 CAPLUS 3,8-Diazabicyclq[3.2.1]octane, 3,8-dibenzyl-, dihydrochloride (6CI) (CA INDEX NAME)

●2 HC1

ANSWER 39 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN (Continued) ether, the solid collected, treated with a small amt. of H2O, and the undissolved product crystd. from MeON. A soln. of 0.1 mole XI in 100 ml. anhyd. Et2O was added dropwise under stirring and cooling to a suspension of 0.5 mole LiAlH4 in 200 ml. Et2O, the mixt. refluxed 4-6 hrs., cooled to 0.degree. and cautiously decompd. with 50 ml. H2O, stirred 1 hr. at room temp., filtered, the inorg. matter washed with Et2O, the ether exts. collected, dried over Na2SO4 and the solvent evapd. gave I (R, % yield, b.p./mm. mp. of dihydrochloride, methicdide, and dipicrate given): Me, 57, 50-2.degree./8, 260-2.degree., 290-2.degree., 242-5.degree. Bu, 61, 54-5.degree./0.3, 245-7.degree., 218-20.degree., 222-2.degree.; Ph, 64, 104-5.degree. (M). A 55-7.degree., 180-2.degree., 262-4.degree., 250-1.degree., 230-3.degree. A soln. of 5.4 g. I (R = CLZPh) (XII) in 100 ml. abs. EtOH hydrogenated 2 hrs. at 50.degree. and 20 atm. in the presence of 1 g. 10% Pd-C gave 2.8 g. I (R = H) (XIII), b. 193-8.degree.; dipicrate m. 247-50.degree. XIV was obtained by mixing with cooling equimolar amounts of XIII (I g), and MeI (I.13 g.) in anhyd. Et20 and Keeping 2 hrs. at toom temp. The ether filtrate treated with excess MeI and kept overnight at 0.degree. gave I (R = Me) methiodide, m. 288-90.degree. (EtCM), 56000-95-2, 3,8-Diszabicyolo[3.2.1] octane-8-carboxylic acid, (prepn. of)

ΙT

(preps. of)
96000-95-2 CAPLUS
3,8-Diazabicyclo[3.2.1]octane-8-carboxylic acid, 3-benzyl-2,4-dioxo-,
benzyl ester (6CI, 7CI) (CA INDEX NAME)

ANSWER 39 OF 39 CAPLUS COPYRIGHT 2003 ACS on SIN SISSION NUMBER: 1961:137533 CAPLUS MENT NUMBER: 55:137533 [Thai. REFERENCE NO.: 55:259671,25968a-i

AL REFERENCE NO.:

AUTHOR (S)

CORPORATE SOURCE: SOURCE:

DOCUMENT TYPE: LANGUAGE:

ANSWER 39 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN 2ESSION NUMBER: 1961:137533 CAPLUS CAPENT NUMBER: 55:137533 CAPLUS CAPENT NUMBER: 10 Sicyclic homologs of piperazine. I. Synthesis of 8-methyl-3,8-diazabicyclocottanes Cignarella, Giorgio: Nathansohn, Giangiacomo REPORATE SOURCE: Lepetit S.p.A., Milan Chemistry (1961), 26, 1500-4 CODEN: JOCEAH; ISSN: 0022-3263 Journal Journal Journal Journal Journal Journal Chemistry (1961), 26, 1500-4 CODEN: JOCEAH; ISSN: 0022-3263 Journal Giapton Chemistry (1961), 26, 1500-4 CODEN: JOCEAH; ISSN: 0022-3263 Journal Journal Journal Mount of 500 g. di-Et. The synthesis and properties of 3-substituted 8-methyl-3,8-diazabicycle[3,2:1] loctanes [1], in which the 3-substituent was H, Me, Bu, Ph, and CH2Ph, were described. To a refluxed soln. of 500 g. di-Et. Meson-lapha,. alpha.-dibromoadipate [11] in 1500 ml. C6M6, 490 g. PhCH2NH2 (III) was added under stirring in 1 hr., the mixt. refluxed 24 hrs. while PhCH2NH2.HBr sepd., cooled, the ppt. filtered off, washed with C6M6, the C6M6 soln. evapd. in vacuo, and the oily residue distd. to give 350 g. cis-2,5-dicarbethy-N-benzylpyrrolidine [17], bb.3 145-8.degree.; HCl salt m. 123-5.degree. (ECM). A soln. of 60 g. IV in 600 ml. abs. EtCM was hydrogenated at 20 atm./40.degree. in the presence of 9 g. 10N Pd-C 2 hrs. to give 38 g. cis-2,5-dicarbethoxypyrrolidine (V), bb.3 95-6.degree.; HCl salt m. 134-5.degree. (ECM). A soln. of 60 g. IV in 600 ml. abs. EtCM was hydrogenated at 20 atm./40.degree. VI (67 g.) added to a 420 ml. NaOH at -10.degree. was treated under stirring and cooling with 75 g. PhCH2CCCO (VII) 30 min. and the mixt. stirred 2 hrs. at room temp. to yield 94 g. cis-N-carbobenzoxypyrrolidine-2,5-dicarboxylic acid (VIII), m. 125-7.degree. (H2O) vIII (79 g.) and 360 ml. Ac20 refluxed in https://document.com/science/science/science/science/science/science/science/science/scien